

is in reverse gear or view may be manually selected. Cameras shall be protected by a stainless steel cage. System components shall be provided with a two (2) year extended warranty.

PRICE SHEET for CHASSIS

Pricing-----

- 1) CNG 2013 Mack LEU 633, or equal, dual drive, tandem axle, cab, and chassis truck, with a GVW of 64,000 pounds minimum or equal.

Quantity to be Purchased

Price each

6

\$ 134,387.⁰⁰ (Each)

- 2) Please provide warranty repair location for making repairs

945 Nandino Blvd Lexington Ky 40511

- 3) Describe the bidder's ability to provide maintenance service in a timely manner as well as its availability of the chassis parts. If more space is needed, please attach additional pages.

Worldwide Equipment is the ONLY certified Cummins
ISL-G warranty facility in Fayette County. WWL will
provide the LFUGG with fast and prompt service
for parts & service and whatever is needed LFUGG
will #1 priority when it shows up at the shop.

INVITATION TO BID

Bid Invitation Number: #62-2013

Date of Issue: 05/02/2013

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **05/16/2013**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

**Division of Central Purchasing
200 East Main Street, Rm 338
Lexington, KY 40507, (859) 258-3320**

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

All bids must have the company name and address, bid invitation number, and the commodity/service on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: 200 E. Main Street, Lexington, KY 40507

Bid Security Required: Yes No Performance Bond Required: Yes No
Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).

| | |
|-----------------------|--|
| Quantity | Commodity/Service |
| Price Contract | CNG Cab & Chassis for Refuse Vehicles |

| | |
|--|--|
| <u>Check One:</u> | <u>Proposed Delivery:</u> |
| <input type="checkbox"/> Bid Specifications Met <input checked="" type="checkbox"/> Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i> | <u>120-150</u> days after acceptance of bid. |

| | |
|--|--|
| <u>Procurement Card Usage</u> | |
| <input type="checkbox"/> Yes | The Lexington-Fayette Urban County Government will be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards? |
| <input checked="" type="checkbox"/> No | |

Submitted by: Worldwide Egypt
 Firm 9415 Nandino Blvd
 Address Lexington Ky 40511
 City, State & Zip

***Bid must be signed:
(original signature)***

[Signature]
 Signature of Authorized Company Representative -- Title
Jim Dotson
 Representative's Name (Typed or printed)

859-281-5152 70516 859-253-4639
 Area Code - Phone - Extension Fax #
jimedotson@thetruckpeople.com
 E-Mail Address

The Affidavit in this bid must be completed before your firm can be considered for award of this contract.

I. GREEN PROCUREMENT

A. ENERGY

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to www.Energystar.gov). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Key Benefits

- These products use 25 to 50% less energy
- Reduced energy costs without compromising quality or performance
- Reduced air pollution because fewer fossil fuels are burned
- Significant return on investment
- Extended product life and decreased maintenance

B. GREEN SEAL CERTIFIED PRODUCTS

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to www.Greenseal.org to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

C. GREEN COMMUNITY

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

Yes _____ No _____

AFFIDAVIT

Comes the Affiant, Jim Dotson, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Jim Dotson and he/she is the individual submitting the bid or is the authorized representative of Worldwide Equipment, the entity submitting the bid (hereinafter referred to as "Bidder").

2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.

6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

Jim Dotson

STATE OF Kentucky

COUNTY OF Fayette

The foregoing instrument was subscribed, sworn to and acknowledged before me by Jim Dotson on this the 14 day of May, 2013.

My Commission expires: 4/26/17 ID488195

Stephen Cantley
NOTARY PUBLIC, STATE AT LARGE

Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.

EQUAL OPPORTUNITY AGREEMENT

The Law

Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.

Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.

Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.

Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.

Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

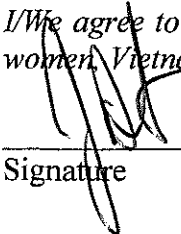
Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.

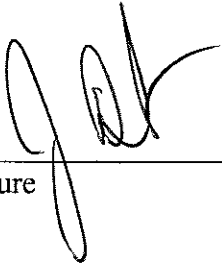
Signature

Name of Business



Worldwide Equipment

against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.

18. Bidder understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.
19. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.

A handwritten signature in black ink, appearing to be 'J. A. K.', written over a horizontal line.

Signature

A handwritten date '5-14-13' in black ink, written over a horizontal line.

Date

EXCEPTION PAGE

2.1. 1-L Per Cummins 120V/1000 watt
Block Heater only Available

2.2. 8. AD-IP is not avail. per
Mack Sales Eng. Mentor/wabco 1800
is standard w/Mack TerraPro. Meet or exceeds, specs
of Bendix AD-IP. Not Avail on Mack Chassis
because of the application and purging. **JA 5-15-13**
Bendix is not recommended for this
application due to not enough air stored
in the dryer as required for purge.

FOR INFORMATIONAL PURPOSES ONLY---HEIL PYTHON MULTIPACK SPECIFICATIONS

1.0 SCOPE---HEIL PYTHON MULTIPACK

1.1 This section describes the minimum requirements for an automated side loading high compaction refuse body with a rear loading tailgate. **Heil Python MultiPack**. The intent for establishing this price contract is to purchase six (6) Heil Python MultiPack bodies to be installed on CNG 2014 Mack LEU 633, dual drive, tandem axle, cab, and chassis truck, with a GVW of 64,000 pounds minimum **or equal**. Specifications associated with a CNG 2014 Mack LEU 633, dual drive, tandem axle, cab, and chassis truck, with a GVW of 64,000 pounds minimum **or equal** are enclosed for informational purposes only.

2.0 REQUIREMENTS ---Heil Python MultiPack

2.1 Body Construction

2.1.1 All steel used in construction of body **shall** have a 50,000 psi minimum yield strength unless otherwise noted. All body welds **shall** be continuous seam.

2.1.2 Payload Capacity: Body **shall** have a net usable capacity of not less than 24 cubic yards (less hoppers). **Minimum 3 yd rear hopper** capacity and a **minimum 4 yd front hopper** capacity.

2.2 Tailgate/Hopper

2.2.1 The rear opening **shall** be covered by a top hinged tailgate which **shall** be constructed to house the rear packing mechanism and form a **minimum 3 cubic yard hopper**.

2.2.2 Tailgate: Tailgate **shall** be one piece, hinged at top of body. Raising, lowering, and latching of tailgate **shall** be done hydraulically. Tailgate opening **shall** include a rubber seal to prevent liquid seepage.

2.2.3 A rider platform with safety handrails **shall** be provided on each side of the tailgate. The platform **shall** be constructed of self-cleaning, non skid steel grate. Measurements **shall** be 20 inches maximum from ground level, 10 inches wide, and 41 inches long.

2.2.4 The operator **shall** activate the packing mechanism into an automatic cycle or have complete manual control to stop and resume cycle or when a short cycle is desired.

2.3 Automated Lifting Arm

- 2.3.1 Body **shall** be equipped with an automated container lifting mechanism capable of handling 30-110 gallon universal style roll carts as well as square, 90-110 gallon curb side containers. Lifting mechanism **shall** be mounted to service containers on the right (curb) side of truck by a single operator in the right side driver's station.
- 2.3.2 Lifting mechanism **shall** extend, clamp, raise, dump, and return container to original position. Minimum reach (horizontal extension) of 108 inches. **All arm functions shall operate at advertised speed with the truck in gear, engine idling.**
- 2.3.3 Lifting mechanism **shall** be hydraulically operated, with a lifting capacity of not less than 625 lbs. at maximum reach, and **shall** incorporate a self leveling feature to keep the container in a level position when in operation.

2.4 Hydraulic System

- 2.4.1 Controls: Automated arm mechanism **shall** be controlled via an electric stick type control operable from inside the right side of truck cab. **No push-pull cable controls will be accepted.** Push button controls for packing mechanism function **shall** be provided inside the truck cab. Controls **shall** be clearly marked as to their function. A warning light **shall** be provided to indicate when the tailgate is not down and latched.
- 2.4.2 Power Take Off: Cab and chassis **shall** be equipped for front mounted, engine driven PTO operation.
- 2.4.3 Overspeed Protection: Each unit **shall** be protected through the transmission. **Electronic overspeed devices will not be accepted.** If hydraulic pump is certified for operation up to the governed RPM of engine an overspeed device is not required provided that a letter of certification from pump manufacturer is included in bid.
- 2.4.4 Hydraulic Pump: **Dixon** brand hydraulic pump **shall** have sufficient capacity to provide full automated arm functions at engine idle speed as well as the ability to provide a pack-on-the-run feature. Hydraulic pump **shall** be warranted by its manufacturer for a period of **not less than three (3) years. No clutches shall be used in PTO/pump system.** Pump **shall** be mounted to allow for ease of maintenance and removal. **Removal of entire front bumper to gain access to pump is not acceptable.**
- 2.4.5 Oil reservoir: Hydraulic oil reservoir **shall** be of sufficient capacity to prevent overheating of oil during normal operation. Reservoir **shall** be mounted behind the cab. Oil reservoir **shall** have appropriate baffling, drain plug, fill port, and sight gauge. A ball valve **shall** be installed to allow removal of plumbing without draining reservoir. Oil reservoir **shall** be equipped with a Pall Reservoir Air Breather part number HC7400SKN4H. No unfiltered venting of the hydraulic system will be permitted. Exterior surface of reservoir **shall** have a black powder coated finish. **Paint finishes will not be accepted.**

- 2.4.6 Filters: Unit **shall** be equipped with a Pall return line filter assembly using cartridge part number HC8800FKN16H. A pressure differential monitor with “change filter” light **shall** be installed in cab.
- 2.4.7 Valve Bank: Hydraulic system **shall** have adjustable main relief valve. A pressure gauge measuring main system pressure **shall** be permanently installed in close proximity to main relief adjustment. There also **shall** be manual controls on valves in case of electrical failure.
- 2.4.8 Hydraulic Plumbing: **Stainless steel tubing shall** be used wherever possible secured by cushioned clamps. All hydraulic hose **shall** meet or exceed SAE 100R2 Type AT requirements. All hose end fittings **shall** be attached by crimped ferrule type. With exception to the main suction hose, no hose clamp connections will be accepted.
- 2.4.9 Controls: Controls for rear packing mechanism **shall** be located curbside near hopper opening. Controls for ejector system and tailgate lift **shall** be located street side at front of body. A weatherproof pushbutton **shall** be located near packing mechanism controls which activates a buzzer in truck cab.

2.5 Roll Cart Dump Units

- 2.5.1 Each unit **shall** have two (2) **Bayne Machine Works Inc. Thinline model TL 1116** roll cart lifter units mounted. The units **shall** operate semi-automatically and be mounted so that the entire contents of the roll cart can be dumped into the rear hopper.
- 2.5.2 Each dump unit **shall** be painted bright yellow.
- 2.5.3 Dump units **shall** be totally hydraulic, utilizing the refuse body hydraulic system as a power source. The amount of hydraulic flow to the dump units **shall** be mechanically limited to only that which is required to achieve the proper cycle time. ***It shall not be necessary to speed up truck engine to achieve the desired cycle time.*** No electrically actuated diverter valves will be accepted.
- 2.5.4 Each dump unit **shall** have its own manual control valve mounted adjacent to the hopper. Bayne hand valve assembly number **6083-1025 shall** be used for each flipper. Dump units **shall** be able to operate individually or simultaneously while maintaining proper cycle times.
- 2.5.5 Complete cycle time of 8-10 seconds. **It must be possible to stop the cycle at any point and reverse direction.**

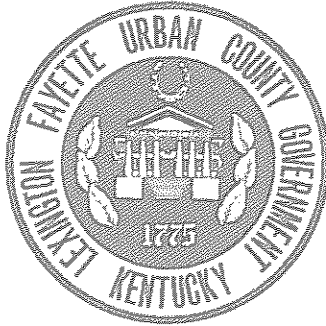
2.6 Miscellaneous

- 2.6.1 The frame rails of the truck **shall** not be drilled, cut, or altered in any way other than that approved by the chassis manufacturer.

- 2.6.2 Anti-sail mud flaps **shall** be installed behind rear wheels. A fixed mud guard **shall** be installed in front of the rear wheels.
- 2.6.3 Lighting: All lighting required by the Federal Motor Vehicle Safety Standard #108, **shall** be installed. All rear facing stop, turn, or tail lamps **shall** be flush mounted, sealed LED units (such as Grote 53252, or Truck Lite 44982R). All clearance lamps **shall** be 2 ½ inches, grommet mounted, sealed LED units (such as Grote 47122 or Truck Lite 10250R). License plate lamp **shall** be a sealed LED unit (such as Grote 60381 or Truck Lite 15226). Backup lamps **shall** be sealed LED units (such as Truck-Lite 44806C). One (1) Truck Lite 81360 **shall** be used to illuminate the hopper area(s), and one (1) Truck Lite 81360 **shall** be mounted to illuminate the area in front of the ejector panel. Both lights **shall** be controlled by separate switches in truck cab.
- 2.6.4 Strobe Lights: Two (2) rear facing 4 inches round, grommet mounted, amber strobe lights **shall** be mounted on the tailgate in a manner consistent with other rear facing lights. Strobe lights **shall** be self contained **LED** units (such as Truck Lite 44212Y or Grote 77353). **Strobe box supplied systems will not be accepted.**
- 2.6.5 Wiring: Any circuit added to the truck **shall** be wired through the truck's fuse panel and protected by fuse or circuit breaker. All connections to a component **shall** be made with a molded plug or otherwise environmentally sealed connector. Individual wires **shall** be terminated with a terminal which is **crimped, soldered, and covered with heat shrink tubing**. Splices should be avoided. If a spliced wire cannot be avoided, the splice **shall** be soldered and covered with heat shrink tubing. ***Under no circumstances will the use of the following items or methods be accepted: crimp-type butt connectors, Scotch-Lok's, solderless terminals, electrical tape, wire nuts, or in-line fuses.***
- 2.6.6 Painting: Entire body **shall** be thoroughly cleaned of dirt, oil, grease, and welding slag. Cleaned bare metal **shall** be prepped and coated prior to paint finish. Other painting processes may be employed only if expressly approved by the Division of Fleet Services. **No electrical wire, hydraulic hose, or fitting shall be painted.** Body to be metallic gray (DuPont 44400U) with eight inch blue (DuPont 44426U) stripe. Paint diagram will be provided by LFUCG.
- 2.6.7 Safety Equipment: A 10 lb. fully rechargeable, A-B-C fire extinguisher **shall** be mounted on the outside of the driver's side of packer body in a convenient location. A set of reflecting safety triangles **shall** be provided.
- 2.6.8 **All switches and controls shall be clearly marked as to their function.**
- 2.6.9 Back-Up Vision System: **"Safety Vision Brand"** closed circuit rear/side vision system number **SV-CLCD70B** utilizing four (4) color cameras **shall** be installed with a multi-input seven inch (7") color LCD monitor positioned for convenient viewing by driver. Cameras **shall** provide a view of the area immediately behind the vehicle to aid in backing, a view of the automated arm action, inside hopper, and a view of traffic on the left side of the vehicle. System **shall** automatically switch to the rear view when truck

Lexington Fayette Urban County Government

Division of Central Purchasing



Lexington Kentucky

Horse Capital of the World

INVITATION TO BID #62-2013

CNG Cab & Chassis for Refuse Vehicles

NOTICE TO BIDDERS

Bid Opening Date: May 16, 2013

Bid Opening Time: 2:00 PM

**Address: 200 East Main Street
3rd Floor, Room 338**

Pre Bid Meeting: N/A

Pre Bid Time: N/A

Address: N/A

II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject any and all bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:

“Bid on #62-2013 CNG Cab & Chassis for Refuse Vehicles”

and addressed to: Division of Central Purchasing
 200 East Main Street, Room 338
 Lexington, Kentucky 40507

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A certified check or Bid Bond in the amount of XX percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth

in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has been awarded.

- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.
- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources*

within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.

- (2) *Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) *If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) *If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.*
- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.

KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions above quoted to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances

of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) *Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*
- (2) *Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

III. Procurement Contract Bid Conditions

- A. The terms of this agreement shall be for 1 year from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be extended for an additional 1 year renewal upon the written agreement of the bidder and the Lexington-Fayette Urban County Government. Said agreement must be in writing and must be executed prior to the expiration of the current agreement.

- B. Price Changes (**Space Checked Applies**)
 - (XXX) 1. Prices quoted in response to the Invitation shall be firm prices for the first 180 days of the Procurement Contract. After 180 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per six month period. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.

 - () 2. No provision for price change is made herein. Prices are to be firm for the term of this contract.

 - () 3. Procurement Level Contract

- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the item on the open market.

- D. All invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.

- E. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.

- F. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.

- G. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.

GENERAL PROVISIONS OF BID CONTRACT

By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.

11. Agreement to Bid Terms: In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.
12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.
13. Assignment of Contract: The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. No Waiver: No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. Authority to do Business: Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
16. Governing Law: This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
17. Ability to Meet Obligations: Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened



CHASSIS SPECIFICATIONS SUMMARY

May 16, 2013

2014 MACK LEU633

REFUSE SEMI-AUTO SIDE LOADER On/Off Hwy
STRAIGHT TRUCK WITHOUT TRAILER

| | | | |
|--------------------|-------------------------------------|---------------------|---|
| Engine | CUMMINS ISL-G 320HP | Transmission | 4500-RDS-6 |
| | | Clutch | |
| Front Axle | 20,000# FXL20 | Rear Axle | 46,000# S462 Ratio 5.66 |
| Suspension | 20,000# | Suspension | 46,000# SS462 |
| Tires | Front: 315/80R22.5 Rear: 12R22.5 | Wheels | 22.5x9.0 STEEL DISC (10-HOLE) 22.5x8.25 STEEL DISC (10 HOLE) |
| Ratings | GVW: 66,000# | Fuel Tanks | |
| Fifth Wheel | | Sleeper | |

Total Quantity: 11

Estimated Total Weight: 18,061#

Reference#: AGBX004714A

X _____
Customer Signature **Date**
 Prepared For:
 City of Lexington

 Phone: --
 Fax: --

X _____
Dealer Signature **Date**
 Presented By:
 Jim Dotson
 Worldwide Equipment

 Lexington, Kentucky 40511
 859-797-1434
 jim.dotson@thetruckpeople.com



Prepared For:
City of Lexington

Presented By:
Worldwide Equipment
945 Nandino Blvd
Lexington, Kentucky 40511
859-797-1434
jim.dotson@thetruckpeople.com

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May 16, 2013
2014 LEU633
Reff#: AGBX004714A

| Description | | Front Wt | Rear Wt. |
|--|-----|----------|----------|
| ORDER/CUSTOMER/VEHICLE INFORMATION | | | |
| INITIAL REGISTRATION LOCATION, UNITED STATES, KENTUCKY | Opt | | |
| IDLE EMISSION CERTIFICATION, IDLE EMISSION CERTIFICATION - BASIC | Std | | |
| TYPE OF SERVICE, MUNICIPAL | Opt | | |
| VEHICLE APPLICATION CLASS, HEAVY VOCATIONAL - Unlimited operation on concrete, asphalt, or maintained gravel/packed dirt with a maximum 3% grade; limited operation on unmaintained surfaces with maximum 5% grade; limited operation on concrete, asphalt, or maintained gravel/packed dirt with maximum 10% grade. (3 AXLES) 78,000 lbs (35,281 kg) MAX GVW. (4 AXLES) 80,000 lbs (36,288 kg) MAX GVW. | Opt | | |
| CARRIER APPLICATION, WITH CRD150-151, Unlimited miles on 3% grade maintained gravel/packed dirt or paved, Max 15% miles on 10% grade maintained gravel/packed dirt or paved, Max 10% miles on 5% unmaintained, maintained gravel, packed dirt, or paved. 90000# (41000 kg) MAX GCW. (Carrier Code USA-V1) | Std | | |
| VEHICLE TYPE, STRAIGHT TRUCK WITHOUT TRAILER | Std | | |
| VEHICLE USE AND BODY/TRAILER TYPE, REFUSE SEMI-AUTO SIDE LOADER On/Off Hwy | | | |
| COMMODITIES, REFUSE | | | |
| FILE STATUS, QUOTE | | | |
| PRICE BOOK LEVEL, 2014A PRICE BOOK LEVEL | Std | | |
| PRODUCT TYPE, PRODUCT TYPE - OL64R TRUCK | Opt | | |
| PRODUCT CLASS, PRODUCT CLASS 29 | Opt | | |
| BACK OFFICE PROCESS, BACK OFFICE PROCESS | Std | | |
| BVS/WHEELBASE/PLATFORM | | | |
| CHASSIS (BASE MODEL), LEU633 6-WHEEL TRUCK | Std | 10533 | 6997 |
| SPECIAL SALES PACKAGE, DUAL SIT DOWN DRIVE PACKAGE W/BOSTROM SEATS | Opt | 300 | |
| FRAME RAILS, 13.375" x 3.25" x .375" (340 x 83 x 10mm) STEEL Section Modulus 23.49 cu in/RBM 2,818,800 in lbs per rail. | Std | | |
| WHEELBASE, 210" (5334 mm) WB 219" CA (5563 mm) | Inc | | |
| PLATFORM, 286" LP (7264 mm) 67" AF (1694 mm) USED WITH 210" WB | Opt | | |
| FRAME REINFORCEMENT - INSIDE, 1/4" STEEL INSIDE CHANNEL REINFORCEMENT | Opt | | |
| ENGINE/TRANSMISSION/CLUTCH | | | |
| ENGINE, CUMMINS ISL-G 320 HP @2000 RPM (PEAK) 1000 LB FT. MAX TORQUE @ 1300 RPM | Std | | |
| TRANSMISSION, 6 SPEED AUTOMATIC, ALLISON 4500-RDS-6 (4.70/0.67) RUGGED DUTY SERIES GEN 4 INCLUDES DIRECT MOUNT OIL COOLER, EXTERNAL OIL COOLER, INTERNAL FILTER, AND OIL LEVEL SENSOR | Std | | |
| EXHAUST/EMISSIONS | | | |
| EXHAUST, NO MUFFLER, SINGLE (R/S) VERTICAL STRAIGHT EXHAUST STACK PLAIN END, SIDE OUTLET DIFFUSER, OUTBOARD | Std | | |
| ENGINE EQUIPMENT | | | |
| AIR COMPRESSOR, CUMMINS TWIN 30.4 CFM | Std | | |
| PRE-CLEANER (DRY TYPE CLEANER) | Std | | |
| ALTERNATOR, DELCO 12V 160A (24SI) | Std | | |
| BATTERIES, (3) MACK 12V 1000/3000 CCA THREADED STUD | Opt | 17 | 4 |
| TEXACO EXTENDED LIFE COOLANT #7998 W/NITRITES (50/50 MIX) TO -34 DEG | Std | | |

| Description | | Front Wt | Rear Wt |
|--|-----|----------|---------|
| COOLING PERFORMANCE, AUX COOLER | USR | 0 | 0 |
| ENGINE BLOCK HEATER, CUMMINS 120V/1000W | Std | | |
| ENGINE HOSES AND TUBING, SILICONE (DOES NOT INCLUDE HEATER & RADIATOR HOSES) | Std | | |
| FAN DRIVE, HORTON DM 2 SPEED FAN | Std | | |
| FLYWHEEL HOUSING, ALUMINUM | Std | | |
| FUEL-WATER SEPARATOR, CUMMINS CNG COALESCING FUEL FILTER, STANCHION MTD ON FRAME | Std | | |
| HOSES - RADIATOR/HEATER, SILICONE | Std | | |
| STARTER, 12 VOLT DELCO 39MT-MXT | Std | | |
| ELECTRONIC STARTER INTERLOCK | Std | | |
| TETHER DEVICE, PLASTIC COATED CABLE, MOUNTED FRONT OF EACH BATTERY BOX LENGTH TO ALLOW COVER TO SET ON GROUND | Std | | |
| CLUTCH/TRANS EQUIPMENT/DRIVELINES | | | |
| REMOTE MTD OIL COLLER FURNISH FOR ALLISON TRANSMISSION | Std | | |
| SYNTHETIC LUBRICANT - TRANSMISSION, TRANSYND SYNTHETIC LUBE FOR ALLISON TRANS | Std | | |
| VOCATIONAL PACKAGE - ALLISON, ALLISON VOCATIONAL PKG. #105183 RUGGED DUTY SERIES (RDS) - (AG) - DUAL SELECTOR W/O GEAR SP LIMITS BOTH SIDES W/O DRIVESHAFT GUARD | Inc | | |
| DRIVELINE - MAIN, MERITOR 17 MXL "XTENDED LUBE" | Std | | |
| DRIVELINE - INTERAXLE, MERITOR 17 MXL "XTENDED LUBE" | Std | | |
| CAB (A thru G) | | | |
| AIR CONDITIONING, ROOF MOUNTED A/C AND INTEGRAL CAB HEATER DEFROSTER WITH SANDEN ROTARY COMPRESSOR | Opt | 93 | |
| AIR CONDITIONING COMPRESSOR, SANDEN ROTARY | Inc | | |
| AIR RESTRICTION MONITOR (INTAKE), GRADUATED LOCK UP (AIR CLEANER INTAKE MOUNTED) | Std | | |
| ASH TRAY, (1) WHINGED COVER (LOCATED ON TOP OF CONSOLE) | Std | | |
| CAB, RH & LH SIT DOWN, DRIVING POSITION | Inc | | |
| CAB MOUNTING, FOUR POINT FIXED TYPE REAR MOUNTED | Std | | |
| CAB LIFT/TILT, LOCATED IN STD LOCATION | Std | | |
| CERTIFIED WEIGHT | Opt | | |
| COAT HOOK (1) | Std | | |
| ENGINE RUNNING ACTIVATED | Std | | |
| DOME LIGHTS, (2) W/SELF-CONTAINED SWITCH (ONE EACH SIDE) | Std | | |
| "LE" LH & RH ROLL-UP WINDOWS; FRT HINGE DOORS | Inc | | |
| ENGINE SHUTOFF, KEY TYPE | Std | | |
| GAUGE, DUAL AIR PRESSURE | Std | | |
| GAUGE, VOLTMETER | Std | | |
| GAUGE, ENGINE COOLANT TEMPERATURE | Std | | |
| GAUGE, ENGINE OIL PRESSURE | Std | | |
| OMIT FUEL GAUGE | Std | | |
| GAUGES, ENGLISH DISPLAY | Std | | |
| GAUGE, ELECTRONIC SPEEDOMETER/ODOMETER PROXIMITY PICK-UP, AND MAGNETIC SENSOR | Std | | |

| Description | | Front Wt | Rear Wt |
|---|-----|----------|---------|
| GAUGE, TACHOMETER | Std | | |
| TRANSMISSION GAUGE AND TRANS. OIL HIGH TEMPERATURE LIGHT | Std | | |
| GEAR SHIFT, WITH NEUTRAL-TO-RANGE INHIBIT | Std | | |
| GLASS - CAB WINDOW, SAFETY TINTED WINDSHIELD SIDE AND REAR WINDOWS | Std | | |
| EXTERIOR GRAB HANDLES, ALUMINUM, RH & LH, BEHIND DOOR AND INTERIOR RH AND LH ON WINDSHIELD POST AND RH ON INSTRUMENT PANEL | Std | | |
| GRILLE, STANDARD FINISH | Std | | |
| CAB (H thru R) | | | |
| HEATER WITH INTEGRAL DEFROSTER | Std | | |
| HORN - AIR, (1) TWIN-UNDER CAB TRUMPET W/DUAL LANYARD CONTROL | Std | | |
| HORN - ELECTRIC, DUAL TONE (TWO HORNS) | Opt | 1 | |
| IDENTIFICATION/CLEARANCE LIGHTS, (7) MARKER AND CLEARANCE | Std | | |
| INTERIOR TRIM - (SILVER GRAY VINYL) | Std | | |
| CHASSIS KEYED AT RANDOM - 2 KEYS | Std | | |
| LOW AIR PRESSURE INDICATOR LIGHT AND BUZZER | Std | | |
| MIRRORS - EXTERIOR, MOTO MIRROR, RH/LH MOTORIZED AND HTD (S.S) RETRACTABLE ARMS AND BRACKETS RH/LH DOOR MTD | Inc | | |
| MIRRORS - CONVEX TYPE, BRIGHT FINISH, LH & RH 8.0" DIA. MOUNTED BELOW LOWER ARM OF WEST COAST MIRROR | Opt | 2 | |
| MUD FLAPS, 12" FRONT FENDER MOUNTED | Std | | |
| PARKING BRAKE CONTROL W/WARNING LIGHT | Std | | |
| AM/FM STEREO CD W/WEATHERBAND | Std | | |
| RADIO ANTENNA, CH STYLE COWL MOUNTED ON LH SIDE | Std | | |
| 5-WAY BINDING POSTS FOR CB | Std | | |
| REAR WINDOW (FIXED TYPE) | Std | | |
| CAB (S thru Z) | | | |
| SEAT - DRIVER, (2) BOSTROM TALLADEGA 910 (MID-BACK) AIR SUSPENSION | Inc | | |
| SEAT - RIDER, OMIT RIDER SEAT | Inc | | |
| SEAT COVERING, ALL CLOTH, BLACK, DRIVER SEATS | Inc | | |
| LAP & SHOULDER BELTS FOR (2) DRIVER SEATS, TO BE ORANGE IN COLOR | Inc | | |
| DRIVER'S SEAT ONLY | Inc | | |
| SIDE MARKERS, LAMPS AND REFLECTORS TO MEET OR EXCEED FEDERAL REGULATIONS | Std | | |
| STARTER SWITCH, KEY TYPE | Std | | |
| STEERING COLUMN, FIXED | Std | | |
| SUN VISOR - INTERIOR, BOTH SIDES | Std | | |
| TURN SIGNALS, FRONT | Std | | |
| TURN SIGNAL SWITCH, MANUAL CANCELLING TURN SIGNALS | Std | | |
| VENTILATION - CAB, FURNISH LH & RH DOOR VENTS | Inc | | |
| WINDSHIELD PROTECTOR, FURNISH | Opt | 15 | |
| WINDSHIELD WASHERS, ELECTRIC, WIPER MOUNTED W/7 QT (6.6 L) RESERVOIR | Std | | |
| WINDSHIELD WIPERS, SPRAGUE-2 SPD ELECTRIC MOTOR W/INTERMITTENT FEATURE | Std | | |
| FRAME EQUIPMENT/FUEL TANKS | | | |
| BUMPER - FRONT, PAINTED STEEL FLUSH MTD 59"/1488 mm BBC (CORP 94" x 15.5") | Std | | |
| CROSSMEMBERS, STEEL 1/2" PL BOLTED BOC & INTERMDT 1/8" BELOW RAIL, 1ST XMBR BOC RR 38.17" FROM AL LINE | Std | | |

| Description | | Front Wt | Rear Wt |
|---|-----|----------|---------|
| CROSSMEMBER (BEHIND REAR AXLE), W/O OPTIONAL CROSSMEMBERS BEHIND REAR AXLE/BOGIE | Opt | 19 | -77 |
| FRAME RAIL CLEARANCE, RIGHT-HAND | Inc | | |
| TOWING DEVICE - FRONT, TOW PIN | Std | | |
| TOWING DEVICE - REAR, W/O REAR TOWING DEVICE | Std | | |
| FUEL TANK - LH, DELETE LH FUEL DIESEL TANK - FOR LOCAL COMPLETION & CERTIFICATION OF CNG SYSTEM | Std | | |
| FUEL TANK - RH, DELETE RH DIESEL TANK - FOR LOCAL COMPLETION & CERTIFICATION OF CNG SYSTEM | Std | | |
| FUEL DRAW/RETURN SYSTEM, FLEXIBLE HOSE FOR NATURAL GAS | Std | | |
| RELOCATE FUEL TANK, W/O RELOCATED FUEL TANK(S) | Std | | |
| FRONT AXLE/EQUIPMENT/TIRES | | | |
| FRONT AXLES, 20000# (9072kg) MACK FXL20 WIDE PIVOT CENTER | Std | | |
| TIRES BRAND/TYPE - FRONT, MICHELIN - TUBELESS RADIAL PLY, (2) 315/80R22.5 20 L XZUS2 (ALL POSITION) | Opt | 6 | |
| WHEELS - FRONT, STEEL DISC (10-HOLE) | Std | | |
| (2) 22.5x9.0 (228 mm) HAYES LEMMERZ 10-HOLE HUB PILOTED (11 1/4"/286mm BC)(FIVE HAND HOLE)(6.42" INSET) | Std | | |
| BRAKES - FRONT, MERITOR "S" CAM TYPE 16.5" x 6" Q+ | Opt | 1 | |
| BRAKE DRUMS - FRONT, CAST OUTBOARD MOUNTED | Std | | |
| DUST SHIELDS - FRONT BRAKE, OMIT | Std | | |
| HUBS - FRONT, FERROUS | Std | | |
| WITHOUT SHOCK ABSORBERS | Opt | | |
| SLACK ADJUSTERS - FRONT, HALDEX - AUTOMATIC | Opt | | |
| SPRINGS - FRONT, 23,000 FRONT MACK SUSPENSION | USR | 0 | 0 |
| STATIC LOAD CUSHIONS | Std | | |
| STEERING, M100P PLUS RIGHT SIDE ASSIST CYLINDER | Std | | |
| REAR AXLE/EQUIPMENT/TIRES/RATIOS | | | |
| REAR AXLE/SUSPENSION, 46000# (20866kg) MACK S462 (268 1020) CAST DUCTILE IRON HOUSING, SS462 MACK MULTILEAF (CAMELBACK) 46000# | Std | | |
| 4S/4M SYSTEM REAR WHEEL END SENSORS | Std | | |
| TIRES BRAND/TYPE - REAR, GOODYEAR - TUBELESS RADIAL PLY, (8) 12R22.5 16 H G287MSA (ALL POS) | Opt | | 168 |
| CARRIER/RATIO - REAR AXLE, CRDP150/151, 5.66 RATIO | Opt | | |
| WHEELS - REAR, STEEL DISC (10 HOLE) | Std | | |
| (8) 22.5x8.25 (210 mm) HAYES LEMMERZ 10-HOLE HUB PILOTED (11 1/4"/286 mm BC) (TWO HAND HOLE) | Std | | |
| BRAKES - REAR, MERITOR "S" CAM 16.5"x7" Q+ | Opt | | -18 |
| BRAKE DIAPHRAGMS, W/O BRAKE DIAPHRAGM OPTION | Std | | |
| BRAKE DRUMS - REAR, CAST OUTBOARD MOUNTED | Std | | |
| DUST SHIELDS - REAR BRAKE, OMIT | Std | | |
| HUBS - REAR, FERROUS | Inc | | |
| OIL SEALS, STEMCO (VOYAGER) | Std | | |
| HIGH MOUNT REAR BRAKE CHAMBERS (REAR REAR AXLE ONLY) | Std | | |
| SHOCK INSULATORS, HEAVY DUTY URETHANE | Std | | |
| SLACK ADJUSTERS - REAR, HALDEX - AUTOMATIC | Opt | | |

| Description | Front Wt | Rear Wt |
|---|----------|---------|
| SUSPENSION - AXLE SPACING, 50" AXLE SPACING (BOGIE WHEELBASE) | Std | |
| W/O ANTI-SPRINGS | Std | |
| SPRING BRAKE CHAMBERS - QUANTITY, (4) CHAMBERS | Std | |
| SPRING BRAKE CHAMBERS - VENDOR, MGM MODEL TR-T (TAMPER RESISTANT) | Std | |
| SPRING BRAKE CHAMBERS, TYPE 30/30 REAR | Std | |
| TRANSVERSE TORQUE ROD (REAR AXLE ONLY) | Std | |
| BRONZE TRUNNION BUSHING | Inc | |
| AIR/BRAKE | | |
| AIR LINES (CHASSIS), EXTRUDED NYLON TUBING (1/8" & 1/4" LINES ARE SINGLE EXTRUSION; 3/8" AND LARGER HAVE POLYESTER REINFORCED CENTER) | Std | |
| AIR BRAKE SYSTEM, DUAL | Std | |
| AIR DRYER, MERITOR/WABCO AIR DRYER, 1800 HEATED W/COALESCING OIL FILTER | Std | |
| AIR RESERVOIRS, STEEL | Std | |
| ANTI-LOCK BRAKE SYSTEM, BENDIX ABS | Std | |
| AIR CONTROL VALVES - VENDOR, BENDIX SWITCHES AND VALVES WHERE POSSIBLE | Inc | |
| DRAIN VALVES, AUTOMATIC DRAIN VALVE, HEATED ON SUPPLY TANK, MANUAL (PETCOCK) ON ALL OTHER TANKS | Std | |
| ELECTRICAL | | |
| BACK-UP ALARM, PRECO, MODEL 1059 | Std | |
| BATTERY BOX(ES), STEEL BASE | Std | |
| BATTERY BOX COVERS, MOLDED PLASTIC | Std | |
| BATTERY BOX - MOUNTING, SINGLE BOX 3 BATTERY MAX. PERP TO FRAME 11" FROM NTOF | Std | |
| FLAMING RIVER BIG SWITCH WIRED ON POSITIVE SIDE | Std | |
| BATTERY SWITCH WARNING LIGHT, FURNISH ON OR NEAR BATTERY BOX (LIGHT ON IN RUN POSITION) | Std | |
| COMPUTER AND 2-WAY RADIO DEDICATED CIRCUIT | Std | |
| ELECTRIC CIRCUIT PROTECTION PACKAGE, 12 VOLT W/CIRCUIT BREAKERS (HEADLAMP CIRCUIT: SAE TYPE I; ALL OTHER CIRCUITS SAE TYPE II) NEGATIVE GROUND SYSTEM | Std | |
| WATERPROOF ELECTRICAL CONNECTIONS SPRAYED W/PROTECTIVE COATING | Std | |
| CONTROL LINK II REFUSE BODYBUILDER ELECTRICAL CONNECTION SYSTEM | Std | |
| HEADLIGHTS, (2) SINGLE ROUND HALOGEN LAMPS | Std | |
| REAR LIGHTING, BRAKE LIGHTS CIRCUIT ACTIVATED WHEN SPRING BRAKES ARE APPLIED AND KEY IN RUN POSITION-NO TAIL LIGHTS | Std | |
| SIGNAL FLASHER TYPE, KYSOR #1039-07732-10 W/PACKARD 3 PIN SEALED CONNECTOR MOUNTED ON STEERING COLUMN NEAR BOTTOM OF DASH | Std | |
| W/O PWR TERMINAL-STROBE LIGHT OPTION | Std | |
| PAINT | | |
| PAINT - CAB EXTERIOR, SINGLE COLOR, BRIGHT BLUE METALLIC [PPG: P3182] | | |
| PAINT - CAB, URETHANE CLEAR COAT | Inc | |
| PAINT CHARGE FOR METALLIC TYPE PAINT | Opt | |
| PAINT - CHASSIS RUNNING GEAR, MACK BLACK (URETHANE) | Std | |
| PAINT - BUMPER, SAME AS CHASSIS RUNNING GEAR | Inc | |
| PAINT - FRONT SPOKE WHEELS, WITHOUT OPTIONAL SPOKE WHEEL PAINT | Std | |
| WITHOUT OPTIONAL SPOKE WHEEL PAINT | Inc | |
| FRONT WHEELS PRE-FINISHED WHITE | Std | |

| Description | | Front Wt | Rear Wt |
|--|-----|----------|---------|
| REAR WHEELS PRE-FINISHED WHITE | Std | | |
| PAINT PROCESS CODES | | | |
| SAME COLOR AS CHASSIS RUNNING GEAR (5ZB-A1X) | Inc | | |
| CHASSIS RUNNING GEAR - STD COLOR (MACK BLACK) (6AB-Z1X) | Inc | | |
| W/O PAINT FOR FUEL TANK (7HB-Z1X) | Inc | | |
| W/O CUSTOM PAINT FOR HUB&DRUM/SPOKES (5YB-Z1X) | Inc | | |
| W/O CUSTOM PAINTED FRONT/REAR RIM/WHEEL (6BB-Z1X) | Inc | | |
| PTO/SPECIALTY/ADDITIONAL EQUIPMENT | | | |
| PTO - CRANKSHAFT ADAPTER, CRANKSHAFT ADAPTER | USR | 0 | 0 |
| FURNISH TC521 FOR USE WALLISON (HD, RDS) TRANSMISSION | Std | | |
| W/O WORK BRAKE | Inc | | |
| PUMP MOUNTING BRACKES | | 0 | 0 |
| V-MAC IV PROGRAMMABLE PARAMETERS | | | |
| CUSTOMER VEHICLE LIMITING SPEED (MPH) 65 mph | | | |
| PEDAL ROAD SPEED LIMITER (MPH) 65 mph | | | |
| LGVLS FEATURE ACTIVATION Omit | | | |
| LOWER GEAR VEHICLE LIMITING SPEED (MPH) 00 mph | | | |
| SOFT RSL Omit | | | |
| PDLO ENGAGED VLS FEATURE Furnish | | | |
| PDLO ENGAGED VEHICLE LIMITING SPEED 00 rpm | | | |
| CRUISE CONTROL SETTINGS WITH ALLISON TRANS | Std | | |
| CRUISE CONTROL MAX SET SPEED (MPH) 65 mph | | | |
| CRUISE CONTROL MIN SET SPEED (MPH) 20 mph | | | |
| CRUISE CONTROL AUTORESUME W/CLUTCH Omit | | | |
| CRUISE'N BRAKE ENGAGEMENT DELAY (MPH) 0 mph | | | |
| ENGINE OVERSPEED COMPANY LIMIT (RPM) 2200 rpm | | | |
| FUELED ENGINE OVERSPEED COMPANY LIMIT (RPM) 2100 rpm | | | |
| VEHICLE OVERSPEED COMPANY LIMIT (MPH) 75 mph | | | |
| FUELED VEHICLE OVERSPEED COMPANY LIMIT (MPH) 70 mph | | | |
| IDLE LOGGING DELAY (MIN) 2 | | | |
| Monthly Trip Summary | | | |
| PERIODIC TRIP HOUR OF DAY 0 (disable) | | | |
| PERIODIC TRIP DAY OF WEEK 0 (disable) | | | |
| PERIODIC TRIP DAY OF MONTH 1 | | | |
| EHT MAX ENGINE SET SPEED (RPM) | | | |
| 2100 rpm | | | |
| EHT MIN ENGINE SET SPEED (RPM) 700 rpm | | | |
| EHT VEHICLE SPEED RANGE LIMIT (MPH) 10 mph | | | |
| EHT RAMP RATE (RPM/Sec) | | | |
| EHT SINGLE SPEED CONTROL ACTIVATION Omit | | | |
| EHT SINGLE SPEED CONTROL SET SPEED (RPM) 0000 rpm | | | |
| EHT JUMP-TO-MIN SET SPEED Omit | | | |
| EHT HOLD TO NEAREST RPM 00 rpm | | | |
| EHT ACCEL-DECEL BUMP-UP RPM 00 rpm | | | |
| EHT ACCEL-DECEL BUMP-DOWN RPM 00 rpm | | | |
| ENGINE PROTECTION - OIL PRESSURE SHUTDOWN Furnish | | | |

| Description | Front Wt | Rear Wt |
|---|------------------|---------|
| ENGINE PROTECTION - COOLANT LEVEL SHUTDOWN | Omit | |
| ENGINE PROTECTION - COOLANT TEMP SHUTDOWN | Furnish | |
| ENGINE PROTECTION - ENGINE OIL TEMP SHUTDOWN | Furnish | |
| ENGINE PROTECTION TRANS OIL TEMP SHUTDOWN | Furnish | |
| GOVERNOR TYPE | Min-Max Governor | |
| ENGINE RPM LIMIT IN UPPER GEARS | 0000 | |
| ENGINE HIGH IDLE SPEED IF STOPPED | 0000 | |
| ENGINE LOW IDLE SET SPEED (RPM) | 700 rpm | |
| DRIVER LOW IDLE ADJUST FEATURE ACTIVATION | Omit | |
| SMART IDLE FEATURE ACTIVATION | Omit | |
| SMART IDLE ELEVATED IDLE RPM TIME (MINS) | 10 | |
| IDLE S/D ABS TAMPER CHECK | Omit | |
| IDLE COOLDOWN FEATURE ACTIVATION | Omit | |
| IDLE SHUTDOWN FEATURE ACTIVATION | Omit | |
| IDLE SHUTDOWN TIME (MINS) | 10 | |
| IDLE SHUTDOWN WARNING TIME (SECS) | 30 | |
| IDLE SHUTDOWN WARM-UP TEMPERATURE (DEG F) | 100 | |
| IDLE SHUTDOWN WARM-UP TIMER (MINS) | 5 | |
| IDLE S/D OVERRIDE W/EHT | Omit | |
| IDLE S/D OVERRIDE W/PTO | Furnish | |
| IDLE S/D OVERRIDE W/ENGINE LOAD | Furnish | |
| IDLE S/D OVERRIDE % ENGINE LOAD THRESHOLD | 00 | |
| IDLE S/D CONTROL W/O Idle Shutdown | | |
| IDLE S/D OVERRIDE LOWER TEMP. THRESHOLD (DEG F) | 00 | |
| IDLE S/D OVERRIDE UPPER TEMP. THRESHOLD (DEG F) | 00 | |
| MAINTENANCE MONITOR FEATURE ACTIVATION | Furnish | |
| MAINTENANCE MONITOR OEM DEFAULT INTERVALS MP | Vocational | |
| MAINTENANCE DUE WARNING PERCENT | 90 | |
| PTO 1 MAX ENGINE SET SPEED (RPM) | 2100 rpm | |
| PTO 1 MIN ENGINE SET SPEED (RPM) | 600 rpm | |
| PTO 1 VEHICLE SPEED RANGE LIMIT (MPH) | 10 mph | |
| PTO 1 RAMP RATE (RPM/Sec) | 100 | |
| PTO 1 SINGLE SPEED CONTROL ACTIVATION | Omit | |
| PTO 1 SINGLE SPEED CONTROL SET SPEED (RPM) | 1000 rpm | |
| PTO 1 SINGLE SPEED CONTROL AUTOSET | Omit | |
| PTO 1 JUMP-TO-MIN SET SPEED | Omit | |
| PTO 1 VEHICLE LIMITING SPEED (MPH) | 60 mph | |
| PTO 1 HOLD TO NEAREST RPM | 00 rpm | |
| PTO 1 ACCEL-DECEL BUMP-UP RPM | 00 rpm | |
| PTO 1 ACCEL-DECEL BUMP-DOWN RPM | 00 rpm | |
| PTO 2 MAX ENGINE SET SPEED (RPM) | 2100 rpm | |
| PTO 2 MIN ENGINE SET SPEED (RPM) | 600 rpm | |
| PTO 2 VEHICLE SPEED RANGE LIMIT (MPH) | 10 mph | |
| PTO 2 RAMP RATE (RPM/Sec) | 100 | |
| PTO 2 SINGLE SPEED CONTROL ACTIVATION | Omit | |
| PTO 2 SINGLE SPEED CONTROL SET SPEED (RPM) | 1000 rpm | |

| Description | Front Wt | Rear Wt |
|---|----------|---------|
| PTO 2 SINGLE SPEED CONTROL AUTOSET Omit | | |
| PTO 2 JUMP-TO-MIN SET SPEED Omit | | |
| PTO 2 VEHICLE LIMITING SPEED (MPH) 60 mph | | |
| PTO 2 HOLD TO NEAREST RPM 00 rpm | | |
| PTO 2 ACCEL-DECEL BUMP-UP RPM | | |
| PTO 2 ACCEL-DECEL BUMP-DOWN RPM 00 rpm | | |
| SPEED SENSOR TAMPER DETECTION SYSTEM ACTIVATION Furnish | | |
| SPEED SENSOR TAMPER DETECTION TORQUE LIMIT (%) 50 | | |
| DEALER INFORMATION | | |
| MANUALS, PEDIGREED PROTECTION PLAN TECH. SERVICE MANUAL PROVIDED | Std | |
| PILOT INSPECTION, REQUESTED | | Opt |
| ALLISON EXTENDED WARRANTY | | |
| FACTORY | | |
| MANUALS | | |
| ENGINE EXT WARRANTY | | |
| REAR BRAKE CHAMBERS | | |
| MODIFICATIONS | | |
| STANDARD SHIPPING INSTRUCTIONS | | Std |
| PERFORMANCE/GRAPHICS/TECH DATA | | |
| AMBIENT TEMPERATURE, 77F (25.0C) | | Std |
| BACK OF CAB INTERFERENCES, VERTICAL EXHAUST, 34" (762mm) FROM BACK OF CAB | | Std |
| SOFT PRODUCTS/BULLDOG PROTECTION | | |

WARRANTY CERTIFICATE



For detailed **WARRANTY CERTIFICATE** coverage refer to the Trucks Dealer Portal or contact the Warranty Department.

<http://www.trucksdealerportal.com/tdp/master/mastr/warranty/mack/Pages/mackwarranty.aspx>



| PERFORMANCE DATA | | | | | UPPER GEAR DATA | | | | |
|-----------------------------------|---------------------|---------|----------------|---------|--|-----------------|-----------------|------------|------------|
| ..Engine | CUMMINS ISL-G | | | | <u>Gear</u> | <u>Ratio</u> | <u>% Grade</u> | <u>MPH</u> | <u>RPM</u> |
| ...Max HP | 320 | | | | 4 | 1.00 | 4.6% | 28.6 | 1300 |
| ..Max Torque | 1000 | | | | 4 | 1.00 | 2.2% | 44.0 | 2000 |
| Transmission | 4500-RDS-6 | | | | 5 | 0.76 | 3.1% | 37.6 | 1300 |
| Rear Axle | S462 | | | | 5 | 0.76 | 0.8% | 57.9 | 2000 |
| ..Ratio | 5.66 | | | | 6 | 0.67 | 2.4% | 42.7 | 1300 |
| .Rear Tire Size. | 12R22.5 | | | | 6 | 0.67 | 0.2% | 65.7 | 2000 |
| Revolutions per mile. | 482 | | | | Level Road 0.0 68.4 2084 | | | | |
| GVW Rating | 66,000# | | | | Cruise Control 0.3% 65.0 1980 | | | | |
| GCW Rating | # | | | | Starting Grade @ 1st Gear: 14.5% | | | | |
| Road Surface | MACADAM/ASPHALT | | | | @ 2nd Gear: 6.3% | | | | |
| .Altitude | 1000 ft | | | | Minimum 1.5% grade recommended | | | | |
| Frontal Height | 13.0 ft | | | | in top gear at peak torque RPM. | | | | |
| Frontal Width | 96.0 in | | | | | | | | |
| Required Grade | 3% | | | | | | | | |
| Measurement | English | | | | | | | | |
| Calculated @ 5.66 Rear Axle Ratio | | | | | | | | | |
| Gear # | Transmission Ratios | | Gear Reduction | % Split | Gradeability Start | RPM After Shift | Operating Range | | MPH |
| | Reverse | Forward | | | | | | | |
| 1 | 5.55 | 4.70 | 26.60 | | 16.1% | | | | 9.4 |
| 2 | | 2.21 | 12.51 | 112.7 | 7.0% | 940 | 9.4 | | 19.9 |
| 3 | | 1.53 | 8.66 | 44.4 | 4.4% | 1385 | 19.9 | | 28.7 |
| 4 | | 1.00 | 5.66 | 53.0 | 2.2% | 1307 | 28.7 | | 44.0 |
| 5 | | 0.76 | 4.30 | 31.6 | 0.8% | 1520 | 44.0 | | 57.9 |
| 6 | | 0.67 | 3.79 | 13.4 | 0.2% | 1763 | 57.9 | | 65.7 |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |

PERFORMANCE DATA IS FOR COMPARATIVE ANALYSIS
AND MAY NOT REPRESENT ACTUAL PERFORMANCE.



Prepared For:
City of Lexington

Presented By:
Worldwide Equipment

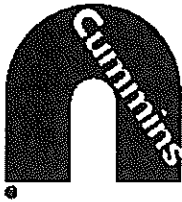
Lexington, Kentucky 40511
859-797-1434
jim.dotson@thetruckpeople.com

May 16, 2013
14A 1.0
Ref #: AGBX004714A

GVW RATING - 66,000#

| | | | |
|-------------------|----------------|------------------|----------------|
| Max Front GAWR | 20,000# | Max Rear GAWR | 46,000# |
| Front Axle | 20,000# | Rear Axle | 46,000# |
| Front Springs | 23,000# | Rear Suspension | 46,000# |
| Front Tires | 20,000# | Rear Tires | 59,120# |
| Front Wheels/Rims | 20,000# | Rear Wheels/Rims | 62,400# |

**EVERY
SKILL.**



DAVID BROCK

*Has demonstrated skill & knowledge
competencies for :*

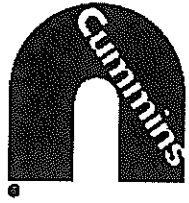
ISLG CM2180 / 2007-28Q

May 2, 2013

A handwritten signature in cursive script, appearing to read 'Steve Bonney', written over a horizontal line.

Steve Bonney, Trainer, Cummins Crosspoint

**EVERY
SKILL.**



DAVID BROCK

*Has demonstrated skill & knowledge
competencies for :*

**ISX12G CM2180 EJ
2012-35Q**

May 2, 2013

A handwritten signature in cursive script that reads 'Steve Bonney'.

Steve Bonney, Trainer, Cummins Crosspoint

MAEK[®]

vocational

TerraPro

LOW ENTRY
LEU 633

6x4

- CNG Gas Powered Refuse Vehicle

ENGINE: CUMMINS WESTPORT ISL G 320
Horsepower - 320 HP [234 kW] @ 2000 RPM
Max. Torque - 1000 lb/ft @ 1300RPM
Engine Type - 4 Cycle, Spark Ignited, Inline 6 Cylinder,
Turbocharged, Charge Air Cooler (CAC)
Displacement - 540 cu. in. [8.9 L]
Air Compressor - CUMMINS Twin 30.4 CFM
Air Cleaner - 15" Single Element w/Snorkel Intak
Alternator, Delco 12V 130A (24SI)
Batteries, (3) Mack 12V 650/1950 CCA Threaded Stud Type
Coolant Protection, -34°F (-37°C)
Remote Mounted Oil Cooler
Engine Block Heater - CUMMINS 120V 1500W
Silicone Engine Hoses and Tubing
Fan Drive, Electronically Modulated Type - Horton DM
2-Speed Fan
Flywheel Housing, Aluminum
Silicone Radiator & Heater Hoses
Starter, 12V Delco 39 MT MXT
Electronic Starter Interlock
Battery Box Lid



Visit us at www.macktrucks.com

TRANSMISSION: ALLISON 4500-RDS-6

6-Speed Automatic, Ratios: 4.70 Low – 0.67 High
Includes: Direct Mount Oil Cooler, External Oil Cooler,
Internal Filter and Oil Level Sensor
Main Driveline: Meritor 17 MXL "Xtended Lube"
Interaxle Driveline: Meritor 17 MXL "Xtended Lube"
TC521 Torque Converter

REAR AXLE: MACK S462

46,000 lb Capacity
Tires – 11R22.5 Duals
Carrier – CRDP150/151
Wheels – Steel Disc (8) 22.5 x 8.25 10-Hole Hub Piloted
Brakes: Meritor "S" Cam 16.5" x 7" Q-Plus w/o Dust
Shields
Brake Drums Cast Outboard Mounted
Rear Wheel Seals
Raised Rear Brake Chambers

CAB: LOW ENTRY LH DRIVE w/RH Operating Position

Air Restriction Monitor, Graduated Lock Up Type (Air Cleaner Intake Mounted)
Ash Tray w/Hinged Cover
Cab Mounting, Four Point Fixed Type
Cab Tilt, Mounted on RH Fender Bracket
Cigar Lighter
Coat Hook
Dome Lights – 2 w/Self-contained Switch
Doors – RH Rear Opening Fold Up Door and LH Door w/Roll-up Window
Engine Shutoff – Key Type Control
Gauges – Dual Air Pressure, Voltmeter, Engine Coolant Temperature, Engine Oil Pressure, Fuel Level, Speedometer, Tachometer, Transmission Oil Temperature
Gear Shift w/Neutral-to-Range Inhibit
Grab Handles, Aluminum RH & LH Behind Door
Heater w/Integral Defroster
Horn – (1) Twin Trumpet Mounted Under Cab Single Tone w/Snow Shield
Identification and Clearance Lights (7)
Interior Trim – Silver Gray Vinyl
Keys, 2 – Keyed at Random
Low Pressure Indicator Light and Buzzer
Exterior Mirrors – LH and RH Motorized w/Heated Retractable Arms and Brackets

AIR/BRAKE

Air Lines Chassis – Extruded Nylon Tubing
Dual Air Brake System
Air Dryer - Heated 1800 w/Coalescing Filter
Air Reservoirs – Steel
Bendix Anti-Lock Brake System
Automatic Drain Valve, Heated

SPECIALITY EQUIPMENT

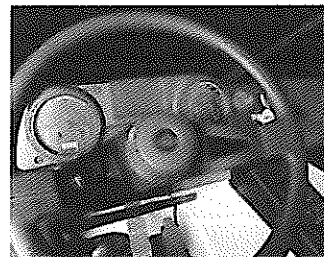
Work Brake

Shock Insulators
Slack Adjusters – Automatic
Suspension – SS462 Mack Multileaf 46,000 lb Capacity
Spring Brake Chambers – (4) 30/30 Double Diaphragm Type
Mechanical Spring Release
Transverse Torque Rod (Rear Axle Only)
Trunnion Bushing

FRONT AXLE: MACK FXL20

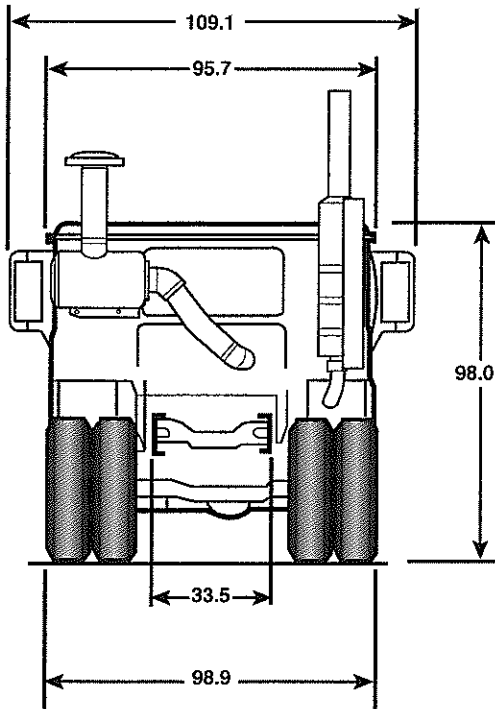
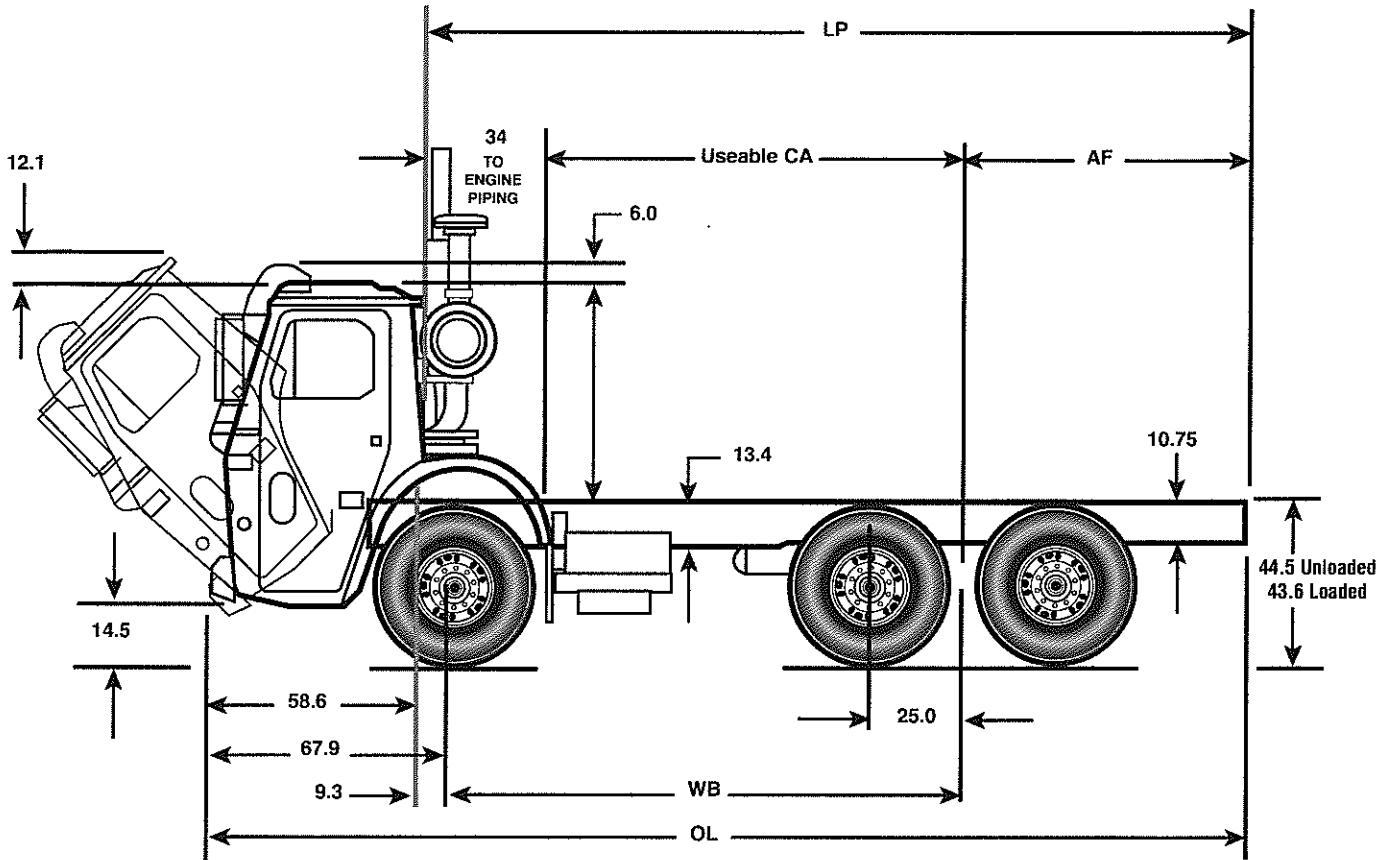
20,000 lb. Capacity
Tires – 315/80R22.5
Wheels – Steel Disc (2) 22.5" x 9.0" 10-Hole Hub Piloted
Brakes: Meritor "S" Cam 16.5" x 6" Q-Plus w/o Dust Shields
Brake Drums Cast Outboard Mounted
Slack Adjusters – Automatic
Suspension – Mack Taperleaf 20,000 lb. Ground Load Rating
Static Load Cushions
Steering – M100P Plus Right Side Assist Cylinder

Front Fender Mounted Mud Flaps
Parking Brake Control w/Warning Light
AM/FM Stereo CD w/Weather Band
CB – 5 way Binding Post
Rear Window, Fixed
Driver Seat – Sears Seating C-2 with Fabriform Cushions (Mid-Back with Air Suspension) with Black Cloth
Rider Seat – Mack Fold Up w/ Black Dupont Covering
Seat Belts – Orange, Lap and Shoulder for Driver/Lap for Fold Up Rider Seat
Side Markers – Lamps and Reflectors
Key Type Starter Switch
Steering Column, Fixed
Sun Visor, Interior Both Sides
Turn Signal Switch, Manual Cancelling
Ventilation – LH Door Vent
Windshield Protector
Windshield Washers – Wiper Mounted with 7qt Reservoir
Windshield Wipers – 2 Speed Electric Motor w/Intermittent Feature
Safety Tinted Windshield w/Non-Tinted Side and Rear Windows
Paint – Mack White (Cab), Mack Black (Chassis Running Gear)

**ELECTRICAL**

12 Volt Electrical System
Backup Alarm – Preco Model 1059
Battery Box – Painted Steel w/Locking Tab
Battery Disconnect Switch, Mtd. RH Side of Battery Box
Battery Switch Warning Light
Daytime Running Lights
Electric Circuit Protection Package
Waterproof Electrical Connections
Control Link II
Headlights – (2) Single Round Halogen Lamps
Rear Lighting
Single Flasher, Kysor

(All measurements are in inches)

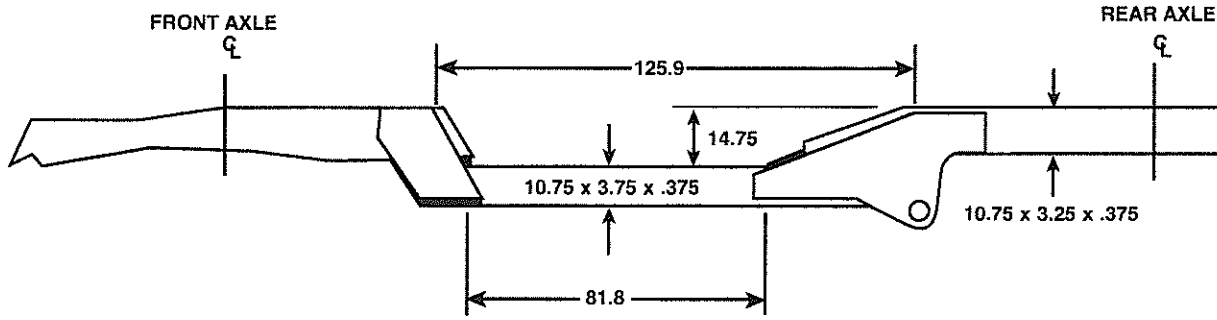


FRAME

Frame Rails – 13.38" x 3.25" x .38" Steel
 Section Modulus, 23.49 in.³
 RBM (per rail) – 2,818,800 lb. in.
 Bumper – Painted Steel Flush Mounted
 Bumper to Back of Cab (BBC) – 59"
 Crossmembers – 1/2" Plate Type Bolted Back of Cab
 Intermediate 1/8"
 Below Rail
 Front Tow Pin

STANDARD WHEELBASE/LOAD PLATFORM

For standard wheelbase and load platform information refer to your current version of MACKTRAQ™



| | | | |
|-----|-----|--------------|-----|
| 250 | 320 | "Drop Frame" | 61 |
| 173 | 286 | 152.3 | 104 |
| 186 | 286 | 165.3 | 91 |
| 197 | 286 | 176.3 | 80 |
| 210 | 286 | | 67 |
| 246 | 322 | | 67 |

| MODEL | SPEEDS | RATIOS (LOW/HIGH) |
|----------------|--------|----------------------|
| ALLISON | | |
| 4500 RDS | 5 | 4.70/0.76 |
| 4500 RDS | 6 | 4.70/0.67 |

| MODEL | HORSEPOWER |
|----------------|------------------------|
| CUMMINS | |
| ISL G 320 | 320 HP [239 kW] @ 2000 |

| CAPACITY | MAKE | MODEL |
|---------------------------|---------|----------|
| FRONT AXLES | | |
| 20,000 lb. [9 072 kg] | MACK | FXL20 |
| REAR AXLES | | |
| 38,000 lb. [17 237 kg] | MACK | S38R |
| | MACK | S462 |
| 46,000 lb. [20 866kg] | MERITOR | RT46-160 |
| 52,000 lb. [23 600kg] | MACK | S522 |





Engine Performance Curve

Cummins Inc

Columbus, Indiana 47202-3005
http://www.cummins.com

ISL G 320

320 BHP (239 kW) @ 2000 RPM
1000 Lb-Ft. (1356 N-m) @ 1300 RPM

Automotive
Pg. No.

Curve Number
FR93276

CPL Code
3297

Date
20-Mar-2009

1

Compression Ratio: **12:1**

Fuel System:

Cylinders: **6**

Bore: **4.49 in (114 mm)**

Stroke: **5.69 in (145 mm)**

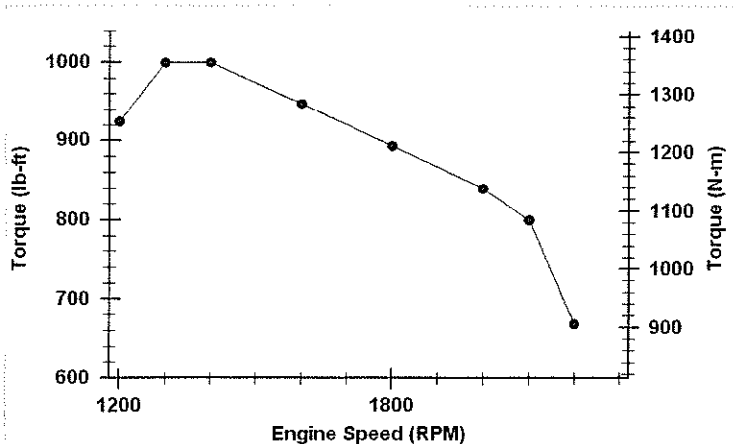
Engine Configuration: **D883002BX03**

Emission Certification: **CARB 2010**

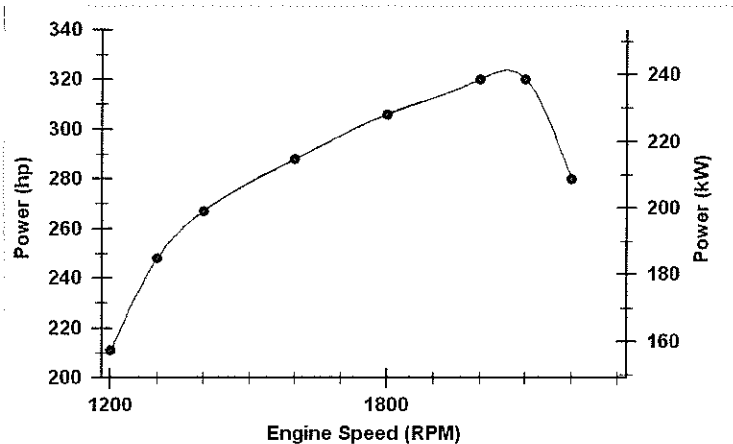
Aspiration: **Turbocharged and Charge Air Cooled**

Displacement: **543 in3 (8.9 L)**

Automotive Applications



| Torque Output | | |
|---------------|-------|-------|
| RPM | lb-ft | N-m |
| 1,200 | 925 | 1,254 |
| 1,300 | 1,000 | 1,356 |
| 1,400 | 1,000 | 1,356 |
| 1,600 | 947 | 1,284 |
| 1,800 | 893 | 1,211 |
| 2,000 | 840 | 1,139 |
| 2,100 | 800 | 1,085 |
| 2,200 | 668 | 906 |



| Power Output | | |
|--------------|-----|-----|
| RPM | hp | kW |
| 1,200 | 211 | 157 |
| 1,300 | 248 | 185 |
| 1,400 | 267 | 199 |
| 1,600 | 288 | 215 |
| 1,800 | 306 | 228 |
| 2,000 | 320 | 239 |
| 2,100 | 320 | 239 |
| 2,200 | 280 | 209 |

Curves shown above represent mature gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions and 100 kPa (29.61 in Hg) barometric pressure [90 m (300ft) altitude], 25 deg C (77 deg F) inlet air temperature, and 1kPa (0.30 in Hg) water vapor pressure with Natural Gas meeting Cummins Engineering Standard 14608.

Rick D Mason, Steven J Beem
Customer Engineering

Certified within 5%

Final-(Estimated data)

Bold entries revised after 1-Dec-2008

Cummins Confidential



Engine Performance Curve

Cummins Inc

Columbus, Indiana 47202-3005
http://www.cummins.com

ISL G 320

320 BHP (239 kW) @ 2000 RPM
1000 Lb-Ft. (1356 N-m) @ 1300 RPM

Automotive
Pg. No.

Curve Number
FR93276

CPL Code
3297

Date
20-Mar-2009

2

Compression Ratio: **12:1**
Fuel System:
Cylinders: **6**
Bore: **4.49 in (114 mm)**
Stroke: **5.69 in (145 mm)**

Engine Configuration: **D883002BX03**
Emission Certification: **CARB 2010**
Aspiration: **Turbocharged and Charge Air Cooled**
Displacement: **543 in3 (8.9 L)**

General Performance Data

Maximum low idle speed **900 RPM**
Minimum low idle speed **700 RPM**
Nominal no load governed speed **2,400 RPM**
Maximum overspeed capability **3,150 RPM**
Torque available at clutch engagement **550 lb-ft** **746 N-m**

Air Induction System

Maximum temperature rise between ambient air and engine air inlet **20 delta deg F** **11.1 delta deg C**

Exhaust System

Maximum back pressure imposed by complete exhaust system **67.9 in H2O** **17 kPa**
Minimum exhaust back pressure: **0 in H2O** **0 mm H2O**

Cooling System

Maximum coolant temperature - engine out **212 deg F** **100 deg C**
Maximum coolant pressure (exclusive of pressure cap; closed thermostat at maximum no load speed) **41 psi** **283 kPa**
Minimum cooling capability @ nominal fuel rate [Level II] with 20 mile/hr (32 km/hr) ram air speed and 50/50 E.G. coolant:
Engine out coolant to ambient @ 2,000 RPM **106 delta deg F** **58.9 delta deg C**
Engine out coolant to ambient @ 1,300 RPM **115 delta deg F** **63.9 delta deg C**
Charge air cooler to ambient @ 2,000 RPM **38 delta deg F** **21.1 delta deg C**
Maximum allowable pressure drop across charge air cooler and OEM CAC piping (CACDP) **4 in-Hg** **13.5 kPa**
Maximum coolant temperature for engine protection controls **220 deg F** **104 deg C**

Maximum Rating Performance Data

| | Governed Speed | | Maximum Power | | Peak Torque | |
|--------------------------------|----------------|-------------|----------------|------------|---------------|------------|
| | 2,200 RPM | | 2,000 RPM | | 1,300 RPM | |
| Engine Speed | 280 hp | 209 kW | 320 hp | 239 kW | 248 hp | 185 kW |
| Output Power | 668 lb-ft | 906 N-m | 840 lb-ft | 1,139 N-m | 1,000 lb-ft | 1,356 N-m |
| Torque | 388 ft3/min | 183 L/s | 455 ft3/min | 215 L/s | 316 ft3/min | 149 L/s |
| Inlet Air Flow | 28.3 lb/min | 12.8 kg/min | 32 lb/min | 14 kg/min | 22 lb/min | 10 kg/min |
| Charge Air Flow | 1,158 ft3/min | 547 L/s | 1,314 ft3/min | 620 L/s | 956 ft3/min | 451 L/s |
| Exhaust Gas Flow | 1,169 deg F | 632 deg C | 1,176 deg F | 636 deg C | 1,126 deg F | 608 deg C |
| Exhaust Gas Temperature | 10,160 BTU/min | 179 kW | 10,450 BTU/min | 184 kW | 6,800 BTU/min | 120 kW |
| Heat Rejection to Coolant | 97 gpm | 6.1 L/s | 88 gpm | 5.6 L/s | 57 gpm | 3.6 L/s |
| Radiator Coolant Flow * | 38 in-Hg | 128 kPa | 55 in-Hg | 186 kPa | 49 in-Hg | 165 kPa |
| Turbo Comp. Outlet Pressure | 280 deg F | 138 deg C | 357 deg F | 181 deg C | 355 deg F | 179 deg C |
| Turbo Comp. Outlet Temperature | 106 lb/hr | 48.1 kg/hr | 116 lb/hr | 52.6 kg/hr | 82 lb/hr | 37.2 kg/hr |
| Fuel Consumption | 187 psi | 1,289 kPa | 235 psi | 1,620 kPa | 279 psi | 1,924 kPa |
| Brake Mean Effective Pressure | | | | | | |

* - Radiator Coolant Flow is approximately 5% less with a continuously deaerating system.
Coolant: 50/50 - Ethylene Glycol/Water by volume. Values are within +/- 5%.

Change Log

| Date | Author | Change Description |
|-----------|------------|---|
| 7/25/2008 | Jim A Cole | CREATED RATING FROM FR92424 FOR 2008HH. |

End of Report

Bold entries revised after 1-Dec-2008

Cummins Confidential

HEAVY DUTY WARRANTY CERTIFICATE



Mack Trucks, Inc. warrants certain individual components of the new Mack truck to be free from defects in material and workmanship under normal use and service up to the periods as specified, provided all Mack Trucks, Inc. maintenance and inspection requirements found in the Operator's Manuals and service manual/instructions are followed. All warranty periods are calculated from date in service. All coverage is 100% for parts and labor except as noted.

LIMITATIONS AND EXCLUSIONS TO THIS WARRANTY APPEAR ON THE REVERSE SIDE OF THIS CERTIFICATE. THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.

This warranty applies to Model Year 2013 and newer models manufactured by Mack Trucks, Inc. with EPA'10 Engine Emissions operated in the United States and Canada. Specific coverage is based on the application and weight class as described in the following chart:

| CHASSIS BUILT WITH EPA'10 EMISSION ENGINES VEHICLE APPLICATION: HEAVY DUTY | | Hours | Months | Miles | Kilometers |
|---|--|--|--------|---------|------------|
| SCHEDULE 1. BASIC VEHICLE* | | — | 12 | 100,000 | 161,000 |
| **Roadside Assistance and Towing on warrantable failures are covered for 3 Months/5,000 Miles/8,050 Kilometers | | | | | |
| *Brake Drums are covered for 12 months or 25,000 miles/40,000 kilometers only | | | | | |
| SCHEDULE 2. MACK DIESEL ENGINE | | | | | |
| Standard Warranty | | 6,250 | 24 | 250,000 | 402,500 |
| **Standard Warranty Includes: Roadside Assistance and Towing on warrantable engine failures | | | | | |
| Major Components: | Block Stiffener (Ladder Frame) Camshaft Forging Camshaft Caps & Bolts Connecting Rod & Cap Forging Coolant Pump Housing Crankshaft Forging Cylinder Block Casting Cylinder Head Casting & Bolts | 12,500 | 60 | 500,000 | 805,000 |
| | Engine Gears (Rear Mounted) Exhaust Manifold Casting Flywheel Housing Intake Manifold Casting Main Bearing Bolts & Caps Oil Pump Drive & Driven Gears Thermostat Housing Timing Gear Cover & Mounting Plate | | | | |
| Coverage also applies to consumables such as lubricant, antifreeze, filter elements, belts, hoses and similar maintenance items not reusable and replaced directly as a result of a warrantable engine, carrier or transmission failure | | | | | |
| Components not manufactured by Mack Trucks, Inc., but used on MACK diesel engine assemblies are excluded from the coverage in Schedule 2. These components are covered by the component manufacturer's warranty in effect at the time of delivery. Consult your local MACK service facility for details | | | | | |
| SCHEDULE 3. MACK TRANSMISSIONS | | | | | |
| T300 and TM300 Transmissions | | — | 36 | 400,000 | 644,000 |
| Towing on warrantable failures for Mack T300 and TM300 Transmissions | | — | 24 | 250,000 | 402,500 |
| Mack mDrive Transmissions | | 6,250 | 36 | 250,000 | 402,500 |
| mDrive Clutch | | 6,250 | 36 | 250,000 | 402,500 |
| Towing on warrantable failures for Mack mDrive Transmissions | | — | 24 | 250,000 | 402,500 |
| SCHEDULE 4. DPF SYSTEM COMPONENTS (OEM WARRANTY) DPF/SCR SYSTEM COMPONENTS (EMISSION WARRANTY) | | 6,250 | 24 | 250,000 | 402,500 |
| Roadside Assistance and Towing on warrantable DPF/SCR failures | | 3,250 | 60 | 100,000 | 161,000 |
| | | 6,250 | 24 | 250,000 | 402,500 |
| SCHEDULE 5. MACK CARRIER / AXLE HOUSING / FRONT AXLE | | | | | |
| Rear Carriers and Housing | | — | 36 | 300,000 | 483,000 |
| Front I-Beam, Steering Knuckle, Tie Rod | | — | 36 | 300,000 | 483,000 |
| Rear Carrier Seals, Gaskets | | — | 12 | 100,000 | 161,000 |
| SBS Bogie and Carrier, Regardless of Carrier Model | | — | 12 | 100,000 | 161,000 |
| SCHEDULE 6. TRUNNION BRACKET & SPINDLE, SUSPENSION TRUNNION (except bushings) | | — | 36 | 300,000 | 483,000 |
| SCHEDULE 7. FRAMES: SIDE RAILS AND CROSSMEMBERS | | — | 36 | 300,000 | 483,000 |
| Extended Warranty for GU Model Chassis | | — | 60 | 500,000 | 805,000 |
| SCHEDULE 8. CAB STRUCTURE | | — | 24 | 200,000 | 322,000 |
| SCHEDULE 9. CAB CORROSION | | — | 60 | 500,000 | 805,000 |
| Coverage applies to perforation (an actual hole in the cab panel) due to corrosion | | | | | |
| Coverage does not apply to corrosion caused by damage to paint finish | | | | | |
| SCHEDULE 10 | | Components not manufactured by Mack Trucks, Inc. may have warranty coverage different from the above as they are covered by the manufacturer's warranty. Consult your local MACK dealership for details. | | | |

**Roadside Assistance and Towing coverage does not apply to vendor engines, transmissions and axles

*Allison Transmission Coverage
For 5yrs quoted in Bid*

Jim Dotson

From: brian.d.wallace@cummins.com
Sent: Wednesday, April 17, 2013 9:33 AM
To: Jim Dotson
Subject: Re:
Attachments: CWI ISL G Protection Plan Ldocx

Jim,

Attached is the warranty matrix for the ISL-G. With the items specified in the bid, Protection Plan 1 is the plan that we will offer. The 5yr/200K mile warranty is

Brian D Wallace
Cummins Crosspoint, LLC

office: (502) 491-4263 ext118
cell: (502) 727-6668

From: Jim Dotson <jim.dotson@thetruckpeople.com>
To: "BRIAN WALLACE (brian.d.wallace@cummins.com)" <brian.d.wallace@cummins.com>
Cc: Jim Dotson <jim.dotson@thetruckpeople.com>
Date: 04/17/2013 09:10 AM
Subject:

Brian,

Need your help, the bid for the natural gas trucks are out for the City of Lexington. Attached is the extended warranty that they are asking for. Will you look over this and let me know what the cost will be on this extended warranty. It will be on a Mack LEU 633 with Cummins Westport Engine.

Thanks

Jim

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[attachment "04-17-2013 09:02:51AM.pdf" deleted by Brian D Wallace/Distributors/Cummins]