

SPECIFICATIONS

**087705
LUBE UNIT, SLIDE IN**

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SPECIFICATIONS

I. GENERAL EQUIPMENT SPECIFICATIONS:

A. INTENT STATEMENT:

Pennsylvania Department of General Services, PCID No. 1075, "*General Requirements for Bidding PENNDOT Vehicles/Equipment*", most current version effective at the time and date of bid opening is included as a part of this specification. PCID No. 1075 may be reviewed and downloaded from the Department of General Services website, <http://www.dgs.state.pa.us>.

Delivery as required per Department of General Services PCID NO. 1075 Section "G". All units must be delivered within **90** days after receipt of the purchase order by the successful bidder.

This specification describes minimum requirements for slide in lube units to be attached in the bed of existing Department shop trucks. Slide in Lube units shall have four 60-gallon storage tanks with all necessary pumps, lines, fittings, and reels to make a complete operating system to dispense and store oils, waste oil and anti-freeze. Slide in lube unit shall have a grease system with all necessary pumps, lines, fittings and reels to make a complete grease system. Slide in lube unit may be used in all types of weather environments and shall be constructed to not allow infiltration of weather elements into storage tanks. The slide in lube unit shall be capable of being operated from a central air supply from an existing air compressor on the Department shop truck.

Awarded OEM vendor shall be responsible for contacting the Specification Section of the Fleet Management Division at (717) 787-1567 to set up a pre-build meeting for all chassis and body mounting component locations prior to chassis build. Any deviations to the specification must be granted in writing by the Chief of the Specification Section. It shall be understood that any discrepancies/deviations between the specification and the completed unit(s), chassis or body up-fitter related, must be addressed and corrected prior to the delivery deadline and the Departments acceptances.

It is understood that the components specified are minimum. The burden of responsibility is hereby placed on the manufacturers engineering department to supply a unit that is totally engineered.

B. SLIDE IN LUBE UNIT:

1. UNDERSTRUCTURE FRAME:

Unit shall be constructed to fully accommodate the weight of the unit when fully loaded with material. Framework shall be steel, and all joints shall be fully welded. There shall be a hold down system on all four corners to secure unit to the bed of truck. There shall be two forklift slots evenly spaced to aid in mounting and dismounting unit from truck. Inside dimensions shall be 7 inches wide by 3 inches high. Reference EQN-540, Sheet 3

2. TANKS:

There shall be four (4) – sixty (60) gallon tanks. Tanks shall be constructed using 3/16-inch thickness aluminum. There shall be a vented weatherproof fill cap on each tank. Tanks shall be labeled by product. Two shall be used for oil products (motor oil, transmission fluid, hydraulic oil etc.), one shall be used for anti freeze, and one shall be used for waste oil. Tanks shall be securely mounted to the understructure frame.

Reference EQN-540, Sheet 1.

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I. GENERAL SPECIFICATIONS: (Continued)

B. SLIDE IN LUBE UNIT: (Continued)

3. CHASSIS GREASE PUMP:

There shall be a 50 to 1 ratio grease pump, including tie downs, top plate, and follower plate. Unit shall be capable of being secured to the understructure frame in a manner that allows for exchanging out grease drums. All necessary fittings and hoses to make a complete operating system shall be supplied. Reference EQ-540, Sheet 2.

4. PUMPS:

The two oil tanks shall each have an air operated piston pump at a 5 to 1 ratio. Each pump shall be equipped with a filter lubricator regulator. All necessary fittings and hoses to make a complete operating system shall be supplied. Reference Lincoln 40 series pump or approved equal.

The anti freeze tank shall be equipped with an air operated diaphragm pump at a 1 to1 ratio. Pump shall be equipped with a filter lubricator regulator. All necessary fittings and hoses to make a complete operating system shall be supplied.

The waste oil tank shall be equipped with an AEROQUIP part number FF9330A-01 FLOCS pump. All necessary fittings and hoses to make a complete operating system shall be supplied.

5. REELS:

All (Except Chassis Grease) hose reels shall be mounted securely to the understructure frame and mounted facing the rear of the unit. Chassis grease reel shall be mounted above on a secure bracket, shall be braced sufficiently as to not allow any lateral movement. Reference EQN-540, Sheet 3.

The chassis grease shall be a high-pressure spring-loaded heavy duty large capacity chassis lube service reel equipped with a 50 feet two wire braid hose with a 3/8 inch inside diameter.

Unit will be used to lube vehicles and equipment in temperatures from 0 degrees to 90 degrees F. Hose shall be equipped with a "Z" swivel and control handle. Ref: LINCOLN Model 94553H Hose Reel w/81729 Swivel and 3050 Control; GRACO 237034 350 Series Grease Reel with 242058 Grease valve & 224569 Swivel Zee. No deviations.

The engine oil shall be a heavy-duty large capacity spring loaded fluid reel equipped with a 50 feet x 1/2 inch inside diameter single wire braid hose. It will be used to dispense multi-viscosity motor oil at temperatures between 0 degrees F and 90 degrees F. Hose shall be equipped with a totalizing control. Ref: LINCOLN 85009-50B Hose Reel w/3867 Countdown Meter; BALCRANK 820418 Reel Package w/1485 Control Handle; or GRACO 237022 350 series reel With GRACO 255200 metered valve non-drip nozzle. No deviations.

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I. GENERAL SPECIFICATIONS: (Continued)

B. SLIDE IN LUBE UNIT: (Continued)

5. REELS: (Continued)

The remaining oil and anti freeze shall be medium pressure heavy duty large capacity spring loaded reels equipped with a 50 feet x 1/2 inch inside diameter single wire braid hose. Units will be used to dispense either Universal Tractor Fluid, premixed antifreeze or hydraulic oil in temperatures from 0 degrees F to 90 degrees F. Hose shall be equipped with a volume control handle.

Ref: LINCOLN Model 85009-50B Hose Reel w/776 Volume Control Handle; BALCRANK 820415 Hose Reel Package w/1481 Handle; or GRACO 237022 350 series reel and GRACO 247712 valve for oil & 247715 valve for Anti-freeze. No deviations.

The FLOCS reel shall be capable of handling 30 feet x 1-inch diameter single wire braid hose. All necessary fittings and hoses to make a complete operating system shall be supplied.

6. PAINT:

All steel exterior surfaces shall be cleaned and properly prepared prior to painting. The frame shall be painted black in color.

Factory colors for pumps & reels is acceptable.

All aluminum surfaces to be cleaned and unpainted.

7. SAFETY:

All corners/sharp edges shall be angled, rounded or a protective covering added.

Manufacturer shall install all safety decals, warning labels, guards and devices available as standard equipment on all equipment supplied.

II. DRAWINGS:

EQN-540 dated 04-15-13 sheets 1,2,3 SLIDE IN LUBE UNIT

The above referenced drawings shall become part of these specifications.

These drawings reflect the intent of the Department, and any discrepancies shall be resolved at the meeting between the vendor and the Equipment Chief, or the pre-production inspection of the unit.

DRAWINGS APPEAR AT THE END OF THE SPECIFICATIONS.

III. MANUALS:

The successful vendor shall furnish all applicable manuals per unit:

The manuals listed shall be official O.E.M. publications supplemented with technical manuals for all components as published by sub-vendors/manufacturers.

Parts Manual presented must be a relative to "all" items utilized to build these units, with appropriate part numbers.

Delivery of these manuals shall be completed with the delivery of each unit(s).

Manuals shall be supplied on thumb drives (in PDF format) along with paper manuals.

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IV. WARRANTY:

The complete unit shall be warranted for a period of 2 years. Warranty shall cover all parts, labor, shipping and travel required to repair the unit. If the unit needs returned to the vendor's place of business for repairs, it shall be the sole responsibility of the vendor to pick up & return the unit to the PennDOT location.

The warranty start-up date shall be defined as the date of transfer from the PennDOT Fleet Management Division to the designated county location.

This will be considered the date of delivery to the county and NOT the date of delivery by the successful bidder to the Department.

The PennDOT Fleet Management will supply the actual start-up date, equipment number, and serial number of the machine, via email, to the successful bidder.

It is the responsibility of the successful bidder to ensure that the equipment manufacturer recognizes and applies the Department's actual warranty start-up date in their database.

This warranty is in effect as follows, starting from the date that the vehicle is placed into service by the Department. Warranty shall not be voided due to Department operation as explained in the Intent Statement. It is understood that the components specified are minimum and if the manufacturer's Engineering Department recommends or deems necessary a more robust component, other than specified, be installed to meet the vehicles intent statement and to not void the warranty, it shall be the bidders/vendor's responsibility.

Warranty on all parts will be for minimum two (2) calendar years or manufacturer's standard commercial term (whichever is greater), from date of departments acceptance. If the manufacturer neglects or fails to correct defect(s) during the warranty period, their responsibility shall continue until such time as it takes to correct the defect(s). The manufacturer is expected to respond to warranty problems and administrate effective solutions in the best interest of the Commonwealth.