



Cement Pump Truck Release to Service Checklist

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Version 2.0

This Release to Service Checklist (“Checklist”) intends to provide a comprehensive set of observation and inspection actions to be performed PRIOR-TO a Magna Energy Services Cement Pump Truck being released from a maintenance or repair facility for the purpose of performing work.

The cover-page of this check list is REQUIRED to be completed by the senior-most mechanic or repair/maintenance professional at location prior-to releasing any Cement Pump Truck for work.

A check-mark (in blue ink) must be present alongside ALL actions listed with a box along the left-side of this check-list. A check mark may indicate any of the three situations:

1. The action has taken place and no deficiencies were identified.
2. The action has taken place. Deficiencies have been identified and corrected.
3. The action could not take place because the action does not apply to the equipment being inspected.

COVER SHEET

SIGNATURE OF SENIOR-MOST MECHANIC OR REPAIR/MAINTENCE PROFESSIONAL ON LOCATION IS REQUIRED ON THIS COVER SHEET PRIOR TO ANY CEMENT PUMP TRUCK BEING RELEASED FOR SERVICE.

“I HAVE APPROPRIATELY AND PRUDENTLY USED THE CHECKLIST BELOW TO IDENTIFY AND CORRECT POTENTIAL DEFICIENCIES AS DESCRIBED. TO THE BEST OF MY KNOWLEDGE, THE CEMENT PUMP TRUCK IDENTIFIED HEREIN MEETS OR EXCEEDS ANY STANDARDS SET FORTH BY MAGNA, ANY DOT/OSHA AND OTHER REGULATORY REQUIREMENTS, AND OTHER ITEMS WHICH WOULD BE GENERALLY ASSUMED BY A REASONABLE PROFESSIONAL IN A ROLE WHICH I CURRENTLY OCCUPY.”

CEMENT PUMP TRUCK ID _____

NAME (PRINT) _____

DATE _____

SIGNATURE _____

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01. PUMP AREA

Determine that all enclosures for rotating parts and drive belts are fully bolted. Inspect the rod splash rubber is installed and not cracked.

Determine that mud pump cylinder heads and valve covers are fully bolted.

Validate the correct shear pin usage. Follow the 3 proceeding steps:

- 1) Reference the company procedure to determine the correct shear pin size for applicable pump pressure.
- 2) Attach and secure the cover over the shear pin relief valve.
- 3) Test the pump to prove the pop-off valve will release per company procedure.

Observe that the ends of the relief lines are secure and the lines are open to the mud pit or tank. Trace the lines to confirm lines are free of valves or other restrictions.

Confirm each of the items listed below, by pointing to the item or area indicated:

- 1) Snubs are attached to each end of the vibrator hose.
- 2) The correct position and application of each hose clamp per the manufacturer's recommendations.
- 3) The attachment point of the snub line to the structural member. Do not attach the snub line to the high pressure line.

Operate the light sources. Confirm the amount of light is adequate, if required.

Look at each oil drip pan to conclude: the correct installment where needed and the oil drip pan is cleaned regularly.

Determine that parts, tools and supplies are located in the correct, designated location.

- Clean the area of all trash, discarded parts and cement.
- Operate all the engine controls and gauges. Document: all work, _____ Engine sn#, _____
- Look at each radiator and heater hose. Replace if cracked, torn or other damage is observed.
- Confirm that all fan and belt guards are secure and free from damage.
- Locate the Proheat engine preheater. Compare the preheater plumbing to the ND specifications.
- Test and visually inspect for damage to each battery. Connect the batteries to confirm functionality with the master switch.
- Point to each label for each control.

02. CEMENT MIXING AREA

- Utilize and maintain, in clean condition, the following PPE: goggles, face shield, rubber gloves, dust mask and rubber apron.
- Locate the 3 posted signs: "Caution use PPE", "Danger", "Chemical Toxic", "Hazard", as applicable.
- Examine and maintain the volume of purified water required to flush the eye(s) for 15 minutes.
- Continually maintain adequate ventilation.
- Check the following: adequate lighting, vapor proof, cover globes, gaskets are in place; covers are clean, as applicable.
- Operate all the engine controls and gauges. Document: all work, _____ Engine sn#, _____

- Look at each radiator and heater hose. Replace if cracked, torn or other damage is observed.
- Confirm that all fan and belt guards are secure and free from damage.
- Locate the Proheat engine preheater. Compare the preheater plumbing to the ND specifications.
- Point to each label for each control.

03. FIRE PROTECTION

- Count the quantity of BC type fire extinguishers - 20 lbs (9kg) (Minimum 4 Required).
- Walk to each fire extinguisher in each unobstructed, key area. For each fire extinguisher: maintain full charge, unexpired tag, with inspection documented.
- Point to each posted "NO SMOKING" sign. Post as many on location as necessary. Personally enforce no smoking rules onto all employees and visitors.
- Do not allow open flames in a pit or the burning of trash on location.
- Store the small amount of flammables in properly labeled U.L. containers. Do not store flammables or U.L. containers on the rig floor.
- Safely perform necessary welding projects under direct observation of manned fire extinguishers.
- Fire watch, when necessary, is to be the only job responsibility assigned to the individual on fire watch.
- Closely inspect the spark and heat arresters located on the main engine exhaust.

04. Spare and Maint Equipment: Pumps, hoses and Connections

Count the quantity of Liners (3 required).

Count the quantity of Liner Gaskets (6 required).

Count the quantity of Swabs (12 required).

Count the quantity of Valves and Seats (6 required).

Count the quantity of Flex Hose - 30 ft with protective cover (3 required).

Count the quantity of Rubber Gasket for Flex Hose (9 required).

Count the quantity of 2' Balon Valve (2 required).

Count the quantity of Cross-Over Subs for tubing (____ Required).

Count the quantity of Cross-over Connections for Fig 602 x Fig 1502 (Required: male x male, female x male, female x female)

05. Spare and Maint Equipment: Cement/Vac Trucks

Count the quantity of Vacuum Hose Gaskets (6 required).

Count the quantity of 3 inch Camlok Unions (complete male and female) w/ gaskets (3 Sets of Male/Female w/Gasket required).

Count the quantity of 3 inch NPT Nipples (for making up connections as needed) - close, 4" long, 6" long (4 Total: 2 of each Required).

Count the quantity of 3 inch Butterfly Valves (3 required).

Count the quantity of Lovejoy (Complete Set -Both Valves - w/Rubber Insert and Set of Screws) (1 Set required).

Count the quantity of Lovejoy Oil-Resistant Synthetic Rubber Inserts (4 required).

06. Spare and Maint Equipment: Hand Tools / Equipment

Count the quantity of 36" Steel Pipe Wrenches (3 required).

Count the quantity of 24" Steel Pipe Wrenches (3 required).

Count the quantity of 18" Steel Pipe Wrenches (2 required).

Count the quantity of Hand Chain Tongs - 4ft (1 required).

Count the quantity of Combination Wrenches - SAE 3/8" through SAE 1-1/4" (1 of Each Wrench Required).

Count the quantity of Socket Sets - SAE 3/8" Drive, SAE 1/2" Drive, SAE 1" Drive (1 Set of Each Drive required).

Count the quantity of Socket Sets - SAE 3/4" through SAE 1-1/4" (1 Set required).

Count the quantity of Sledgehammers - 6lb (2 required).

Count the quantity of Sledgehammers - 8lb (1 required).

Count the quantity of Sledgehammers - 3lb (2 required).

Count the quantity of Screwdrivers Sets - Flathead and Phillips (1 of Each Set Required).

- Count the quantity of Hammer on Screwdrivers - Large, Medium, Small (6 Total: 2 of Each Size Required).
- Count the quantity of 24" crescent wrenches (2 required).
- Count the quantity of 18" Crescent Wrenches (2 required).
- Count the quantity of 15" Crescent Wrenches (1 required).
- Count the quantity of 12" Crescent Wrenches (2 required).
- Count the quantity of Hammer Wrench Sets (Cameron Wrenches) for 3k, 5k, and 10k bolts (6 Total: 2 for Each Rating Required).
- Count the quantity of Pliers, Vice Grips, and Wire Cutters (3 Total: 1 of each Required).
- Count the quantity of Pry Bars - Small, Medium and Large (3 Total: 1 of Each Size Required).
- Count the quantity of Shovels - flat and round (4 Total: 2 of Each Type Required).
- Count the quantity of 60" Digging/Construction Bar - 12-15 lb (4 Total: 2 of each Required).

07. Safety Equipment

- Check all fire extinguishers for combustion rating, full charge and expiration date. Perform inspection once a month on rig and trucks (6 Fire Extinguishers).
- First Aid Kit, Eye wash, blood born pathogen kit (3 Total: 1 of Each Kit Required).
- Count the quantity of Body Harnesses (2 required).

Count the quantity of Whip Checks for Connections (15 required).

Count the quantity of MSDS Books (1 required).

Count the quantity of JSA Books (2 required).

Count the quantity of Face Shields (2 required).

Count the quantity of Flags used on over-length loads (6 required).

Count the quantity of Rig Signs (1 required).

08. Paperwork: Rig Equipment and Motor Vehicle)

Locate the Drawworks last overhaul (API RP 7L Sec 4.2), copied document (1 required).

Locate the Kelly Hose Inspection, per OEM, copied document (1 required).

Locate the 5 year NDT, a disassembly of crown block (API PR 8B / ISO 13534), copied document (1 required).

Locate the Power Swivel Inspection and or Last Overhaul, copied document (1-2 required).

Locate the Annual DOT Inspection sticker is clean, not obstructed and not peeling (1 required).

Locate the PM Program for the motor vehicle.

Locate the Emergency Shut-Off Test record (1 required).

09. General Supplies (rope, soap, pipe dope)

Count the quantity of Invoice Books (2 required).

Count the quantity of Glass Cleaners cans (3 required).

Count the quantity of boxes of Rags (2 required).

Count the quantity of Pipe Dope pails (2 required).