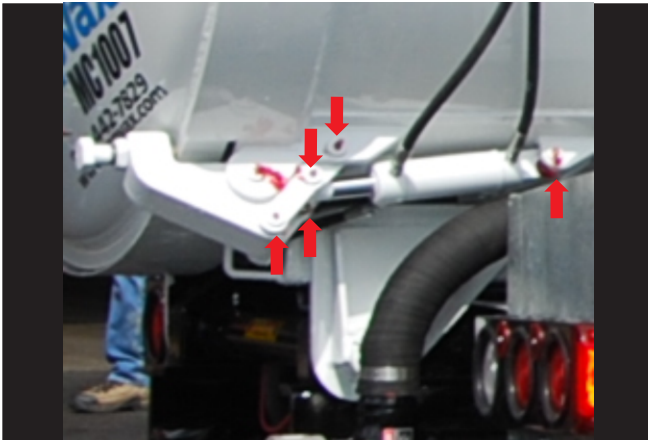


# 3

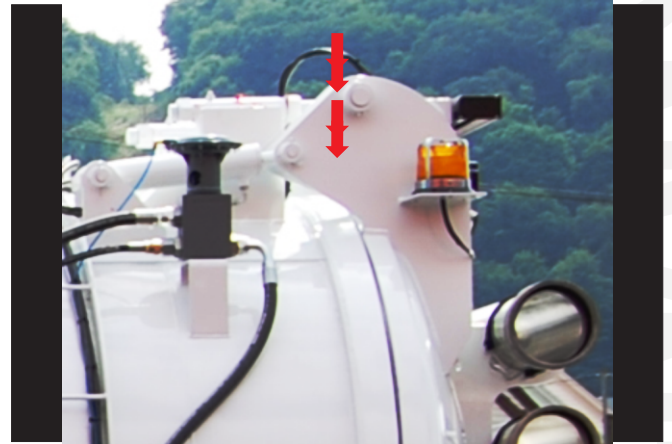
# MAINTENANCE



## A. Tailgate



1. Tailgate Lock grease points (4 Locks)



2. Tailgate Open/Close cylinder grease point (2 sides)

## B. Boom



JUNE 2017

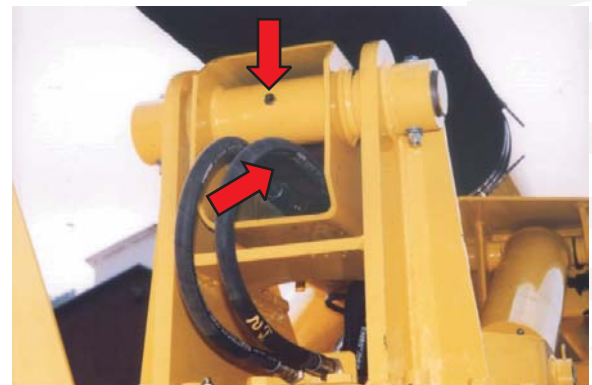
1. If equipped, Remote Boom Grease Fitting Panel



2. Boom Slew Gear grease point

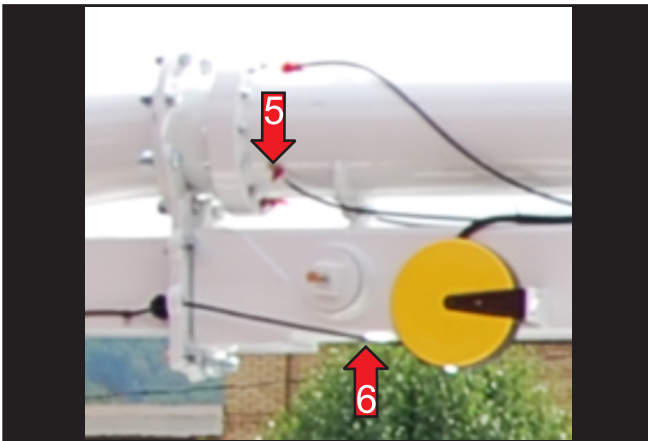


3. Boom Lift Cylinders grease point

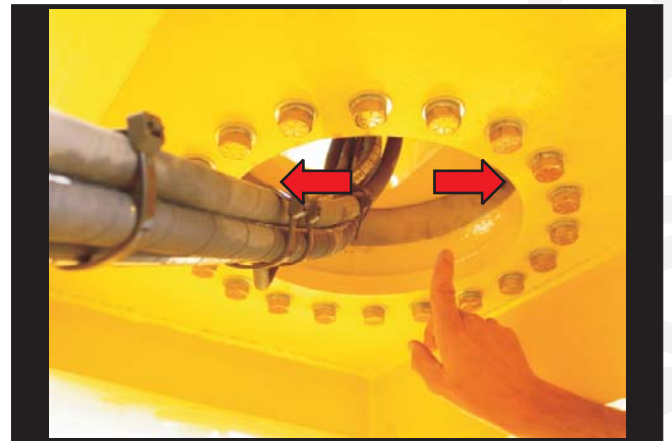


4. Boom Extend Cylinder grease point

# GapVax® Maintenance Lubrication/Grease Fittings

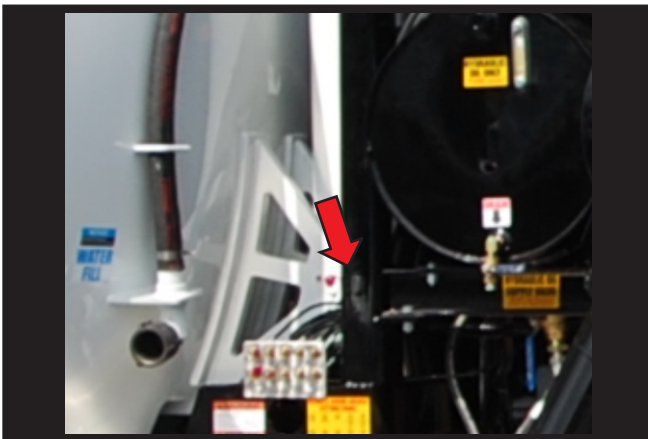


5. Boom Extension upper grease points (3 places)
6. Boom Extension grease point (extend boom out some, fitting on bottom)

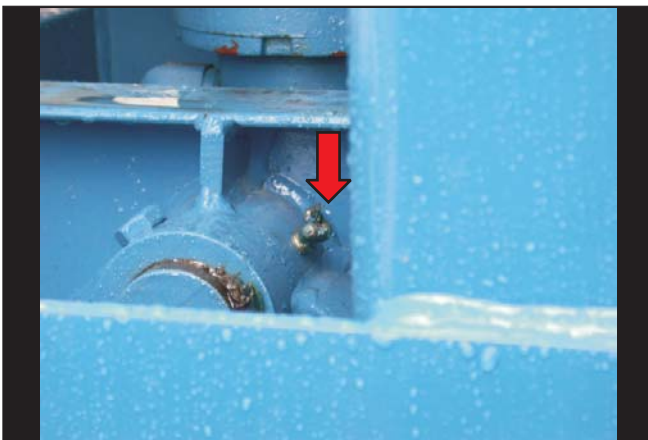


7. Slew gear grease points

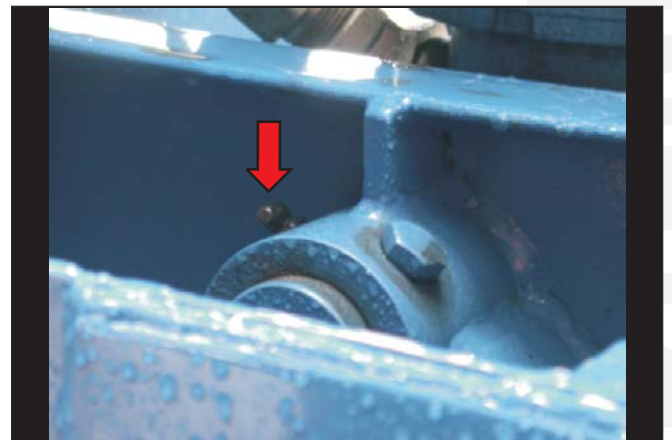
## C. Body Lift Cylinder



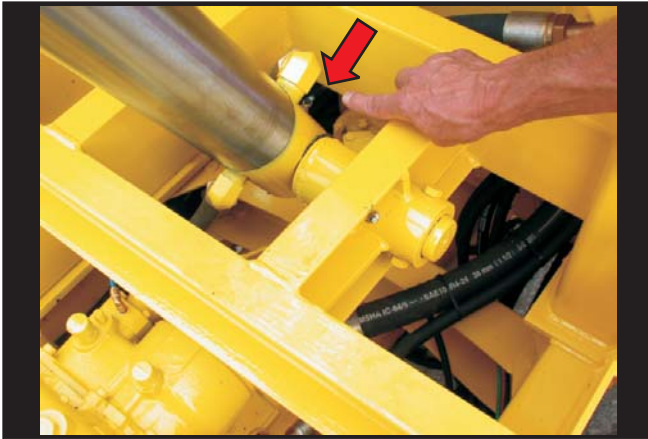
1. Upper Body Pivot/Cylinder grease point (driver side and curbside)



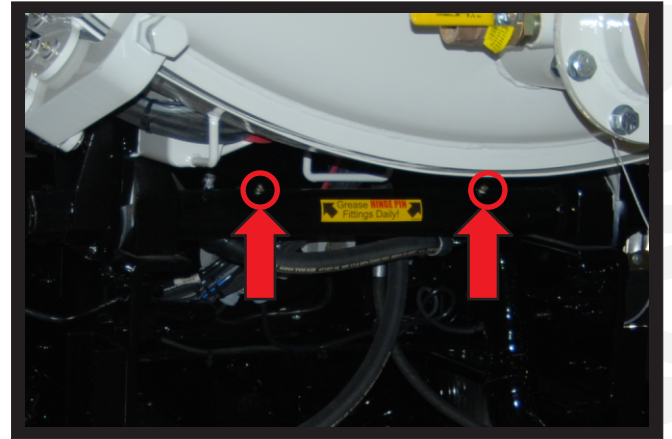
2. Lower Body Pivot/Cylinder grease point (curbside)



3. Lower Body Pivot/Cylinder grease point (driver side)

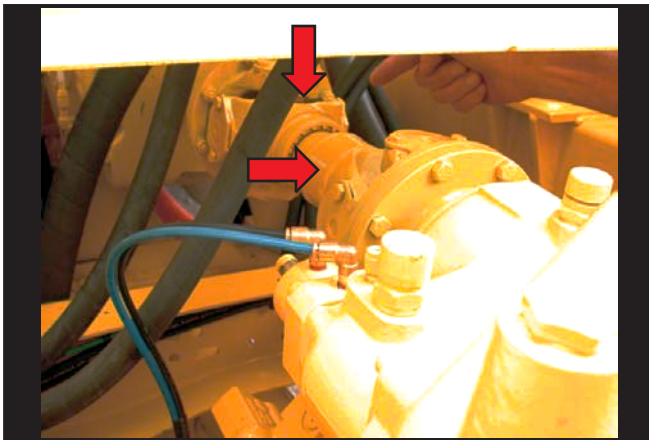


4. Lower Middle Body Cylinder grease point

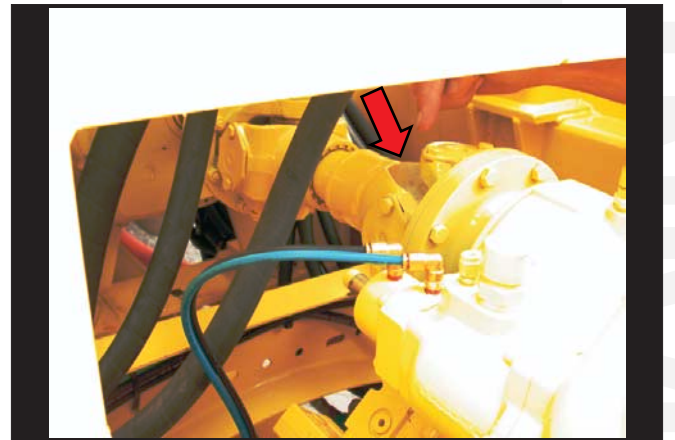


5. Body Pivot Pin grease points (2 fittings)

## D. Blower Drive Shaft

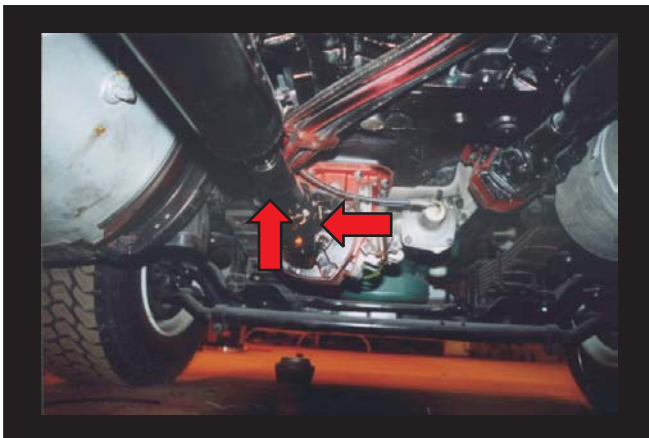


1. Front "U" Joint grease point, Slip joint grease point

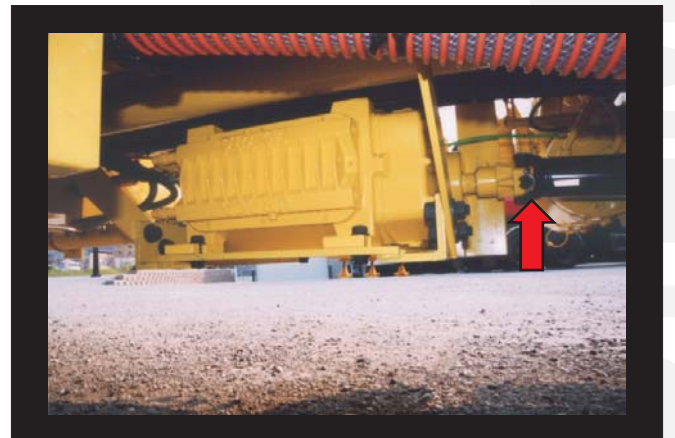


2. Rear "U" Joint grease point

## E Water Pump Drive Shaft

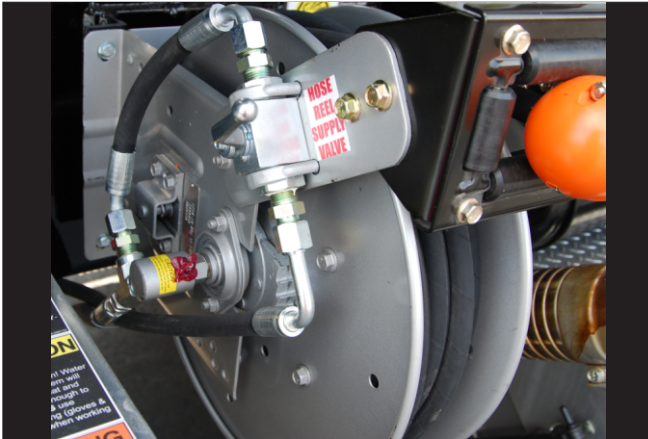


1. Front "U" Joint grease point, Slip Joint grease point



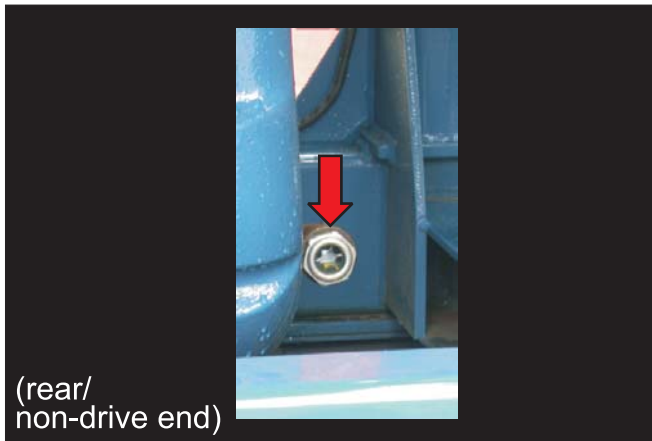
2. Rear "U" Joint grease point

## F. Auxiliary Hose Reel(s)



1. Auxiliary Hose Reel(s) grease point

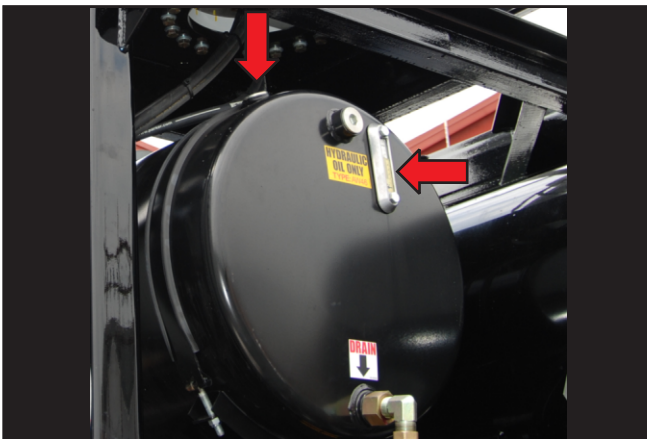
# GapVax® Maintenance Lubrication Points/Fluid Levels



1. The Blower has FOUR total site glasses, front and rear site glass on either side. Fluid level should be in the center of the site glass on both the front and rear.



2. Giant Water Pump fluid level check/fill point (driver's side) **SAE 90 oil**



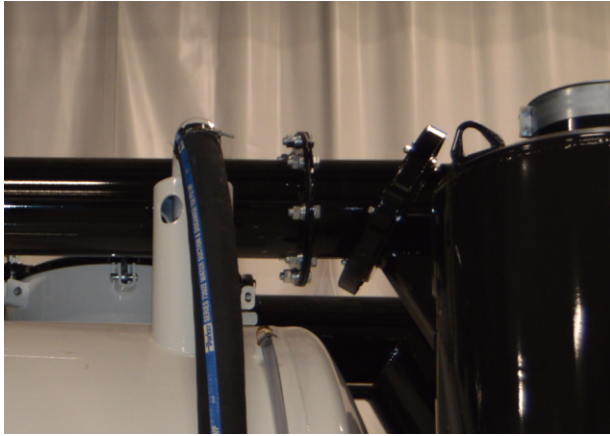
3. Hydraulic Oil tank oil level gauge and fill point **AW46**



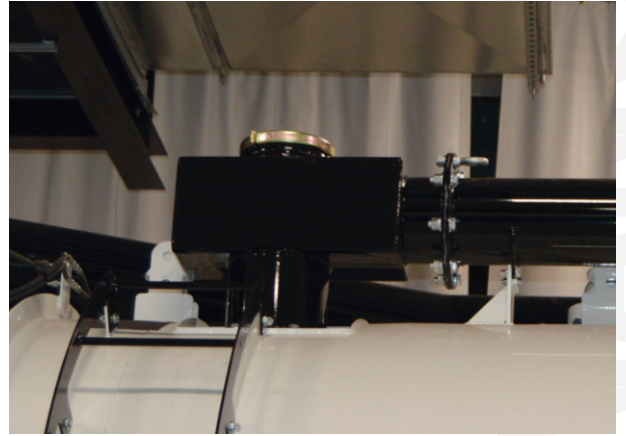
4. Transfer Case fluid level sight glass (fluid should be at center of sight glass)  
*\*OMSI T-Case use Dextron III*  
*\*\*Cotta T-Case use SAE 80W-90*

MAINTENANCE

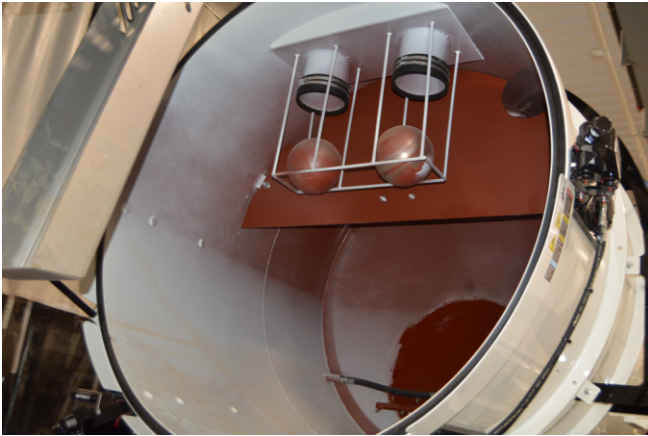
# GapVax® Maintenance Airpath Check



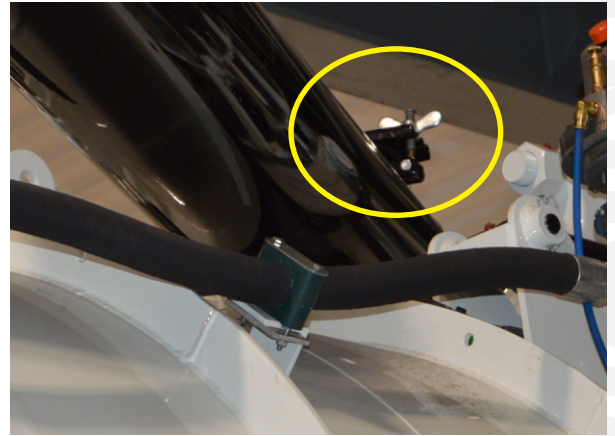
1. Check boom gasket.



2. UNLATCH door of the boom canon. Check for obstructions. Latch door after inspection.



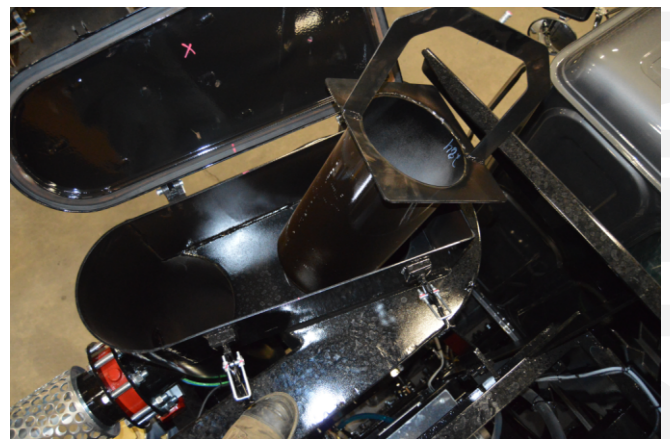
3. Check floatballs and gaskets inside debris body.



4. Check cleanout access on body break pipe.



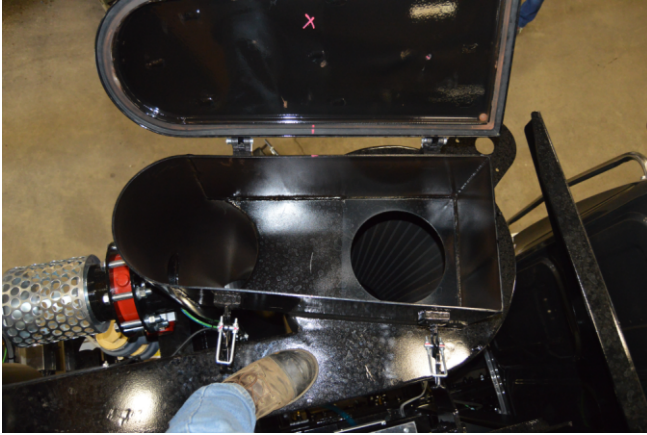
5. Check body break gasket.



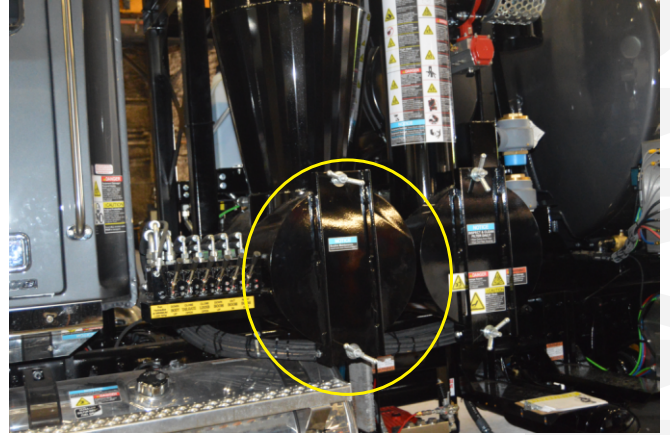
6. UNLATCH door at top of cyclone cleanout. Open cyclone cleanout, remove vortex finder and check for obstructions.



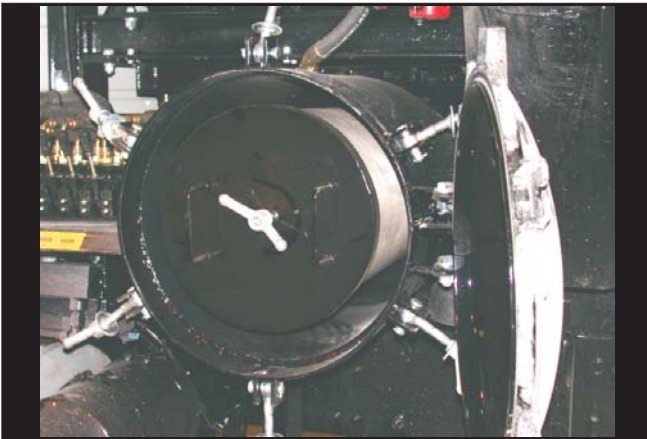
# GapVax® Maintenance Airpath Check



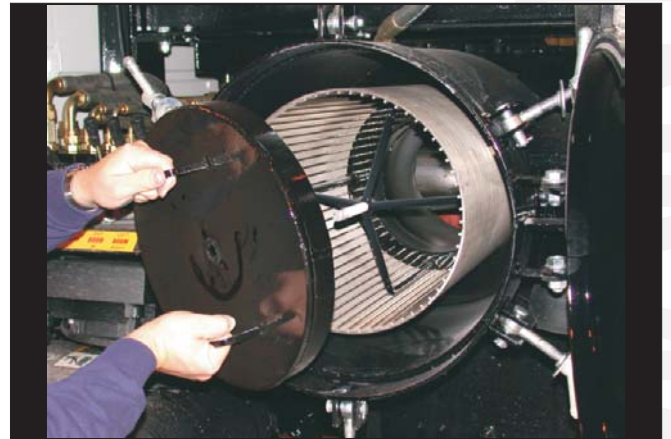
Top of cyclone with vortex finder removed.



7. Open and check cyclone cleanout, close securely after check



8. **OPEN** cleanout door to access and remove filter



9. Remove filter retainer cap



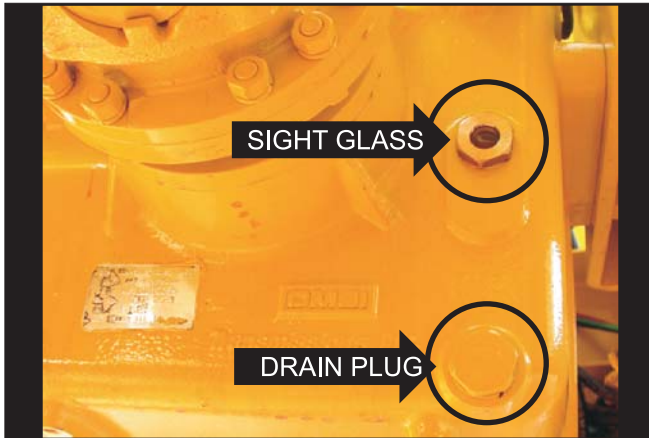
10. Remove filter from retainer and housing



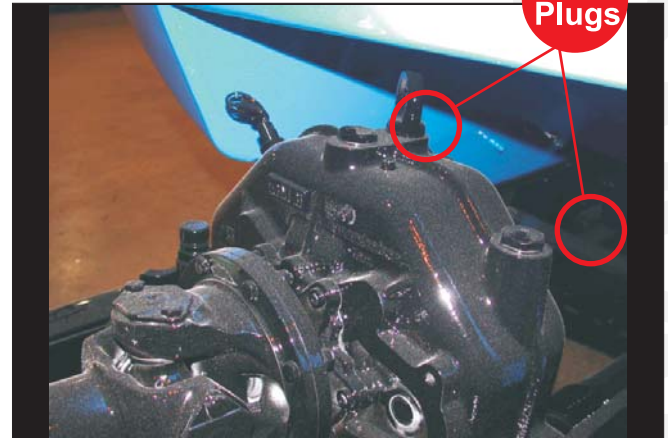
11. Wipe or Brush debris from filter and wipe or brush out housing. Reassemble filter and retainer cap in housing, close cleanout door, check that latches are tight and secure.

# GapVax® Key Service Information

## Check Transfer Case Oil



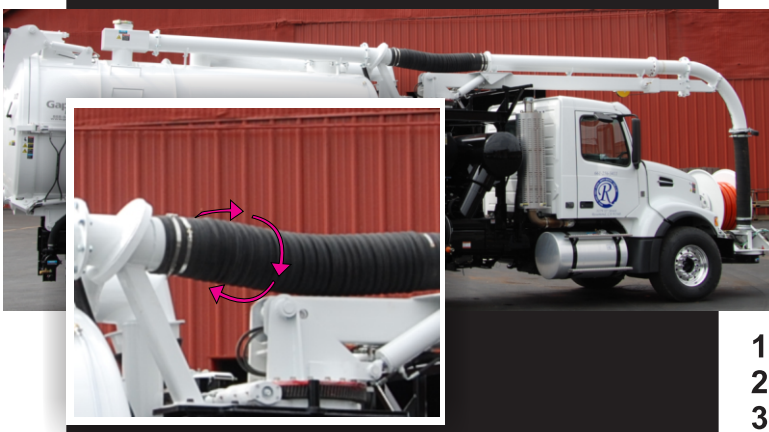
1. Check Transfer Case oil at sight glass
2. To change fluid:
  - a. Remove drain plug, drain fluid
  - b. Re-install drain plug, **MAKE SURE** plug is tight



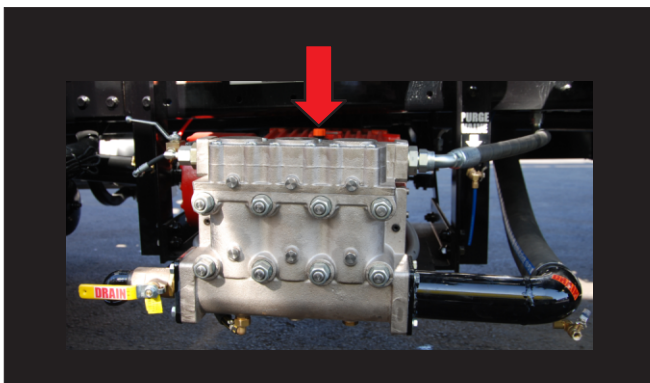
- c. **OMSI:** Fill with 11 qts. Dextron III use either fill plug  
**COTTA:** Fill with 9 qts. SAE 80W-90

**NOTE:** Check truck production record in the front of this manual if you are unsure which type of T-case is on your GapVax® unit

## Rotate Boom Hose 1/4 Turn

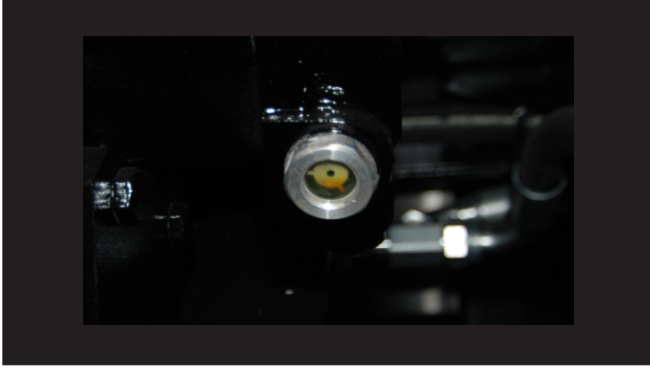


1. Loosen both hose clamps/both ends of hose
2. Rotate hose 1/4 Turn
3. Re-tighten hose clamps securely



3. Fill Giant Water Pump with **SAE 90 oil** to the center of site glass  
(Capacity 118 fl. oz. or 0.92 gallon)

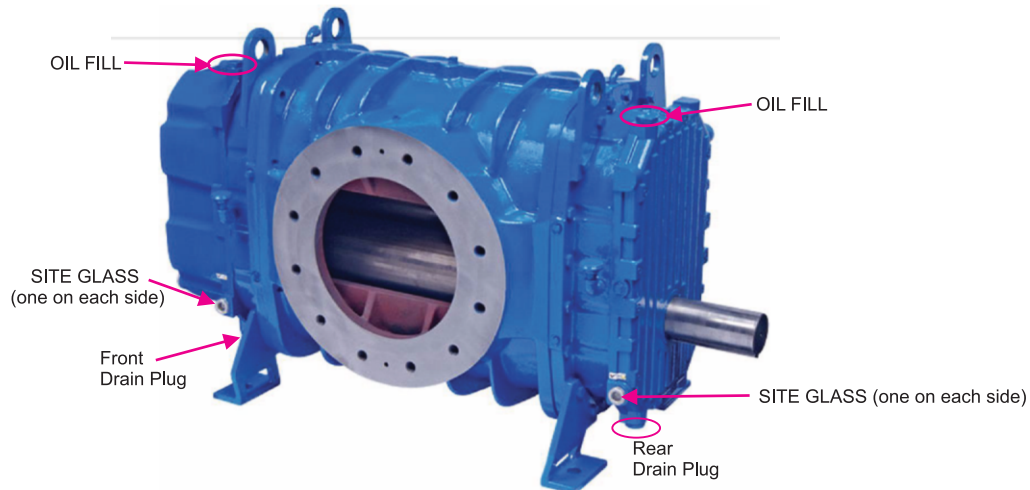
## Check/Change Blower Fluid



**Blower Sight Glass**  
(one on each side as well as front and back)



**Blower Drain Valve**  
(two drain valves located on the bottom)



### To Change Fluid:

1. Remove front and rear drain plugs
2. Drain all fluid
3. BE SURE the O-rings on both plugs are not damaged
4. RE-INSTALL plugs, MAKE SURE they are tight
5. Fill blower with EP-220 oil
6. Fill front and rear to the center of site glass

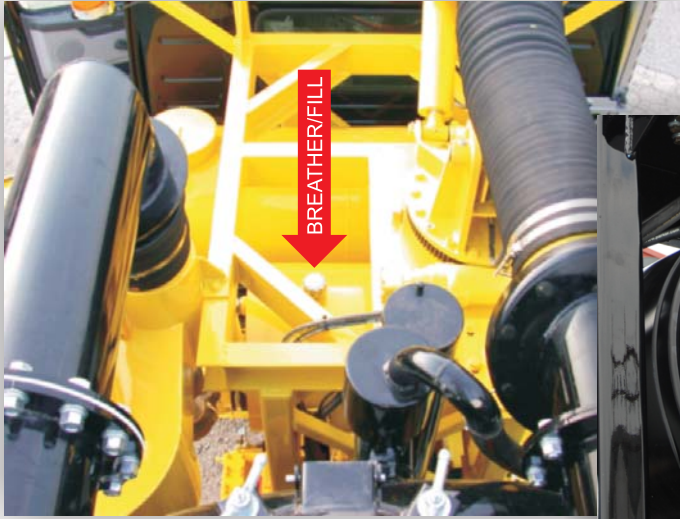
### NOTES:

Hibon Model TS32V18 & TS56V18

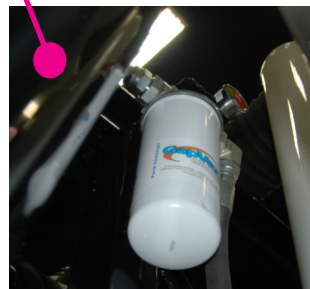
\*The oil level is correct when it is just below the center line of the sight glass

\*\*Refer to the Blower manual within your GapVax® manual for quantities

## Changing Hydraulic Oil



1. **MAKE SURE** truck is parked on level ground, parking brake **ON**, ignition **OFF**, and ignition key **REMOVED**
2. Body and Boom **MUST BE** in the down position
3. 70 gallons of AW 46 Hydraulic oil needed to fill tank
4. Hydraulic filter element (UFI) \*Check production record for part number
5. Removed drain plug and drain old Hydraulic oil
6. **MAKE SURE** oil is disposed fo properly!
7. **RE-INSTALL** plug, **MAKE SURE** it is tight
8. **REMOVE** Hydraulic filter Element
9. Dispose of old element properly and install new element
10. Fill Hydraulic oil tank with **AW46** oil to proper level (center of sight glass)



Hydraulic Filter Element  
(located behind the cyclone)

<b>DAILY/BEFORE USE</b>	
<i>Refer to Chassis Owner's Manual for Chassis Maintenance*</i>	
Fuel Tank	Use Clean Ultra Low Sulphur Diesel Fuel
Blower & Transfer Case(s) Check fluid levels	See GapVax® Operational Manual for info
Hydraulic System	Check ALL hoses, fittings, & Valves - repair and replace as required; <b>AW46 Fluid</b>
Hydro-Ex & Washdown Pump(s)	Check oil level/milkiness
Water Pump(s) Crankcase	Check oil level/milkiness } <i>Service if needed</i>
Front hose reel gearbox drive	SAE 40 fluid
Water Pump Strainer	
Grease Fittings	Lithium-based NLGI No. 2 Grease
<b>WEEKLY</b>	
<i>Refer to Chassis Owner's Manual for Chassis Maintenance*</i>	
Blower, Hydro-Ex Pump, & Washdown	Lubricate driveshafts -Lithium-based NLGI No. 2 grease
Body Pivot Pin, Tailgate Pivots & Locks	Lubricate -Lithium-based NLGI No. 2 grease
Liquid Level Load Indicator Swivel	Lubricate -Lithium-based NLGI No. 2 grease
Hose Reel(s) swivel/bearings	"
Check oil in water pump drive gearbox (if equipped)	85W90
<b>INITIAL 50 HOURS OF OPERATION</b>	
Change Water Pump crankcase oil for the following pumps:	
Giant M Series (HX Pump) M422 or 423	80/90 or ISO VG 220 (100 fl. oz)
Giant 8000 Series	ISO VG 220 (Mobil gear 630, Shell Omala 220 or Texoma Meropa 220)
URACA 708 or 716	ISO VG 220 "
Pratissoli Water Pump	ISO VG 220 "
<b>INITIAL 100 HOURS OF OPERATION</b>	
Body grease fittings	Lubricate -Lithium-based NLGI No. 2 grease
Change T-Case Oil	
OMSI	Dextron III (approx. 11 qts.)
Cotta (100 hrs or 3 mths)	SAE 80W90 (approx. 9 qts.)
Check oil level/milkiness (severe duty) in bearing housing Hydra Tech Sludge Pump	SAE 10 Motor Oil or SAE 20
<b>INITIAL 200 HOURS OF OPERATION</b>	
Change Blower Oil (Syn or Min) go by blower hour meter	Mobil gear 630 (Mineral) or Mobil SHC 630 (Syn)
<b>INITIAL 250 HOURS</b>	
Change oil in bearing housing Hydra Tech Sludge Pump	SAE 10 Motor Oil or SAE 20
<b>EVERY 200 HOURS</b>	
Change Water Pump Oil Giant 8000 Series	ISO VG 220 (Mobil gear 630, Shell Omala 220 or Texoma Meropa 220)
<b>EVERY 250 HOURS</b>	
Check oil in bearing housing Hydra Tech Sludge Pump	SAE 10 Motor Oil or SAE 20
<b>EVERY 300 HOURS</b>	
Lubricate body grease fittings (monthly)	Lubricate -Lithium-based NLGI No. 2 grease
Lubricate Tailgate locks, blower driveshaft, boom pivots, vane pump driveshaft	Lubricate -Lithium-based NLGI No. 2 grease
Change URACA water pump oil	ISO VG 220
<b>EVERY 500 HOURS</b>	
Change T-Case Oil OMSI (500 hrs/12 mths)	Dextron III (11 qts.)
Replace Hydraulic Filter	Check label on filter for Part Number
Change Water Pump crankcase oil for the following pumps:	
Giant LP Series	SAE90 gear oil (100 fl. oz)
Pratissoli Water Pump	ISO VG 220
<b>EVERY 800 HOURS</b>	
Change Blower Oil Mineral	Mobil Gear 630 (Mineral EP ISO VG 220)
<b>EVERY 1,000 HOURS</b>	
Change oil in bearing housing Hydra Tech Sludge Pump	SAE 10 Motor Oil or SAE 20
<b>EVERY 1,600 HOURS</b>	
Change Blower Oil Synthetic - go by blower hour meter	Mobil SHC 630
<b>EVERY 2,500 HOURS</b>	
Change COTTA T-case oil (2500 hrs or 6 mths)	SAE 80W90 (approx. 9 qts.)
<b>ANNUALLY</b>	
Hydraulic Oil	AW46 fluid
Water Pump Gearbox	SAE 80W90

**NOTE: BLOWER OIL - If converting from Mineral to Synthetic, MAKE SURE to follow proper flush procedures!**  
*Refer to Chassis Owner's Manual for Chassis Maintenance\**  
 Questions? Check your GapVax® Operational Manual for updated info or call us at 888-442-7829

Rev. 09/22/09