

ORIGINAL INSTRUCTIONS

**SV208D**  
**Tier 4B (final)**  
**Vibratory Roller**

*PIN DDDS208DNHWTA2003 and above*

**OPERATOR'S MANUAL**

**Part number 48150509**

1<sup>st</sup> edition English

June 2017



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## Identification plates

Write your machine model number, Product Identification Number (PIN) and serial numbers on the lines provided below. Always give these numbers and component plate numbers to your dealer when you need parts or information for your machine.

Make a record of the numbers. Keep this record and your manufacturers statement of origin in a safe place. If the

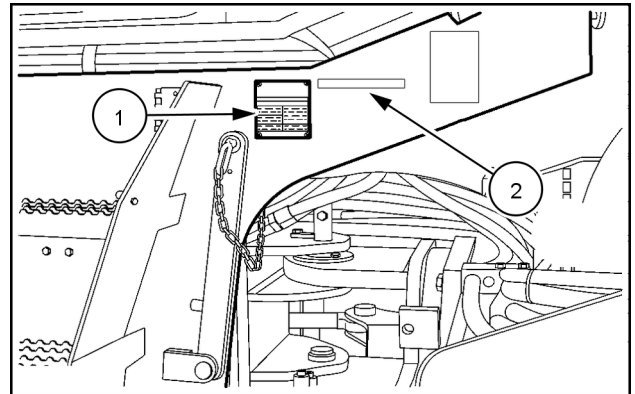
machine is stolen, report the numbers to your local law enforcement agency.

MACHINE	
_____	Type / Model & Designation
_____	Product Identification Number (PIN)
_____	Year of Build
_____	Engine Serial Number

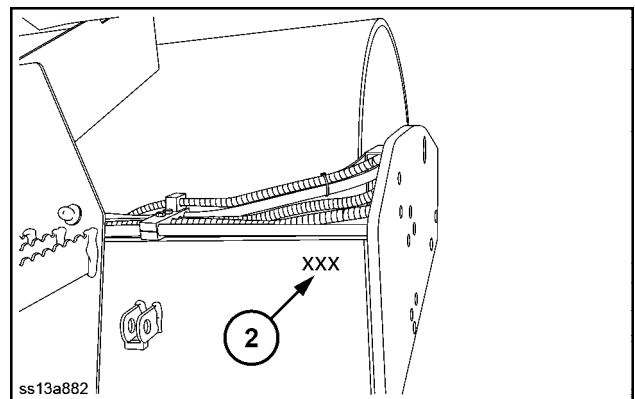


RAIL14COM0348BA 1

Item	Designation
1	Product Identification Number (PIN) plate
2	Machine's production number



RAIL17COM0215AA 2



SS13A882 3

## ⚠ Operator protective structure ⚠

Your machine is equipped with an operator protective structure, such as: a Roll Over Protective Structure (ROPS), Falling Objects Protective Structure (FOPS), or a cab with a ROPS. A ROPS may be a can frame or a two-posted or four-posted structure used for the protection of the operator to minimize the possibility of serious injury. The mounting structure and fasteners forming the mounting connection with the machine are part of the ROPS.

The protective structure is a special safety component of your machine.

DO NOT attach any device to the protective structure for pulling purposes. DO NOT drill holes to the protective structure.

The protective structure and interconnecting components are a certified system. Any damage, fire, corrosion, or modification will weaken the structure and reduce your protection. If this occurs, THE PROTECTIVE STRUCTURE MUST BE REPLACED so that it will provide the same protection as a new protective structure. Contact your dealer for protective structure inspection and replacement.

### Roll Over Protective Structure (ROPS)

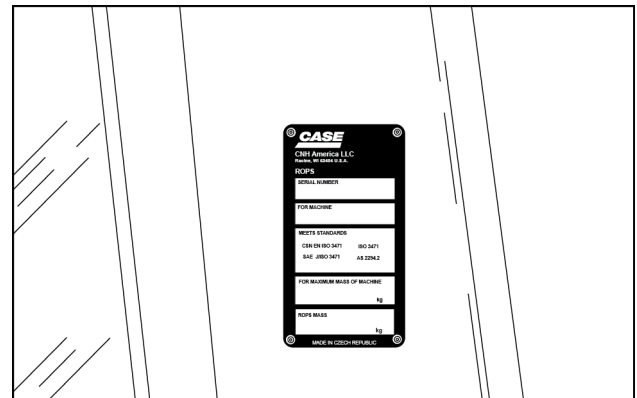
The Roll Over Protective Structure (ROPS) Product Identification Number (PIN) plate is on right-hand rear post. The plate provides information such as the ROPS PIN, the gross weight, approval, regulation, and model number of the machine.

After an accident, fire, tip over, or roll over, the following MUST be performed by a qualified technician before returning the machine to field or job-site operations:

- The protective structure MUST BE REPLACED.
- The mounting or suspension for the protective structure, operator's seat and suspension, seat belts and mounting components, and wiring within the operator's protective system MUST be carefully inspected for damage.
- All damaged parts MUST BE REPLACED.

DO NOT WELD, DRILL HOLES, ATTEMPT TO STRAIGHTEN, OR REPAIR THE PROTECTIVE STRUCTURE. MODIFICATION IN ANY WAY CAN REDUCE THE STRUCTURAL INTEGRITY OF THE STRUCTURE, WHICH COULD CAUSE DEATH OR SERIOUS INJURY IN THE EVENT OF FIRE, TIP OVER, ROLL OVER, COLLISION, OR ACCIDENT.

Seat belts are part of your protective system and must be worn at all times. The operator must be held to the seat inside the frame in order for the protective system to work.



RAIL17COM0212AA 2

## ⚠ Air-conditioning system ⚠

The air-conditioning system is under high pressure. Do not disconnect any lines. The release of high pressure can cause serious injury.

The air-conditioning system contains gases that are harmful to the environment when released into the atmosphere. Do not attempt to service or repair the system.

Only trained service technicians can service, repair, or recharge the air-conditioning system.

## ⚠ Backup alarm system ⚠

Place the travel controller in the reverse travel position and an audible alarm will sound repeatedly until the operator moves the travel controller into neutral position or forward travel position.

The audible backup alarm system notifies others in the area that the machine will be or is moving in reverse.

## Safety signs

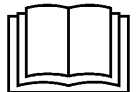
The following safety signs are placed on your machine as a guide for your safety and for those working with you. Walk around the machine and note the content and location of these safety signs before operating your machine.

**NOTE:** Safety signs that display the “Read Operator’s Manual” symbol are intended to direct the operator to the operator’s manual for further information regarding maintenance, adjustments, or procedures for particular areas of the machine.

Keep safety signs clean and legible. Clean safety signs with a soft cloth, water, and a gentle detergent. Do not use solvent, gasoline, or other harsh chemicals. Solvents, gasoline, and other harsh chemicals may damage or remove safety signs.

Replace all safety signs that are damaged, missing, painted over, or illegible. If a safety sign is on a part that is replaced, make sure the safety sign is installed on the new part. See your dealer for replacement safety signs.

Safety signs that display the “Read operator’s manual” symbol direct you to the operator’s manual for further information regarding maintenance, adjustments, or procedures for particular areas of the machine. When a safety sign displays this symbol, consult the appropriate page of the operator’s manual.



Safety signs that display the “Read service manual” symbol direct you to the service manual. If you doubt your ability to perform service operations, contact your dealer.



## 3 - CONTROLS AND INSTRUMENTS

### Access to operator's platform

### Proper entry and exit

#### ▲ CAUTION

##### Fall hazard!

When entering or exiting the cab, never use the control levers as handholds. Always mount and dismount the machine in a safe way. Maintain a three-point contact with steps, ladders, and/or handholds. Failure to comply could result in minor or moderate injury.

C0075B

#### ▲ WARNING

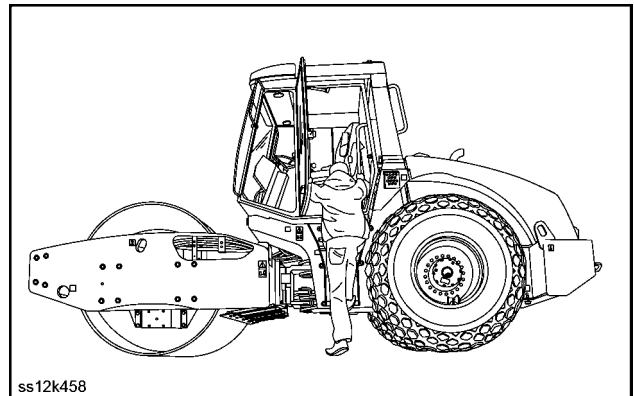
##### Fall hazard!

Jumping on or off the machine could cause an injury. Always face the machine, use the handrails and steps, and get on or off slowly. Maintain a three-point contact to avoid falling: both hands on the handrails and one foot on the step, or one hand on the handrail and both feet on the steps. Failure to comply could result in death or serious injury.

W0141A

Proper entry or exit from the operator platform is the same on both sides

- Do not use the steering wheel or other controls or accessories as hand holds when entering or exiting the machine cab or operator's stand.
- Face the machine when mounting and dismounting.
- Maintain a three-point contact with steps, ladders, and hand holds.
- Mount and dismount the machine only at designated locations that have hand holds, steps, or ladders.
- Do not jump on or off the machine.
- Never mount or dismount from a moving machine.
- Make sure steps, ladders, and platforms remain clean and clear of debris and foreign substances. Injury may result from slippery surfaces.

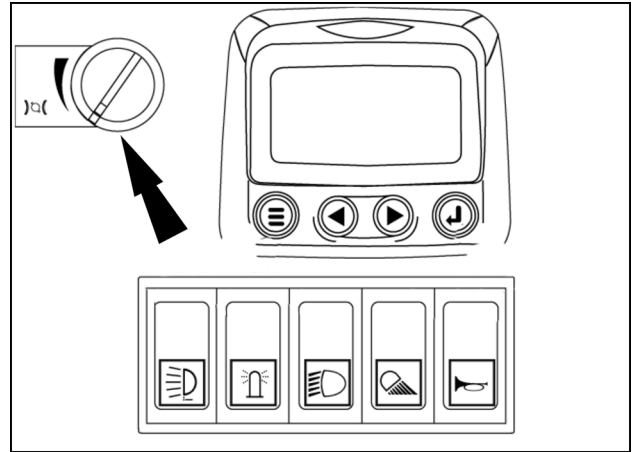


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**(7) Engine speed selector**

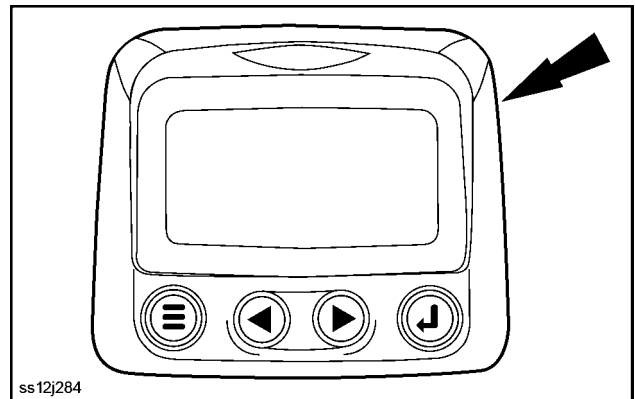
Turn the selector dial to adjust the engine speed from maximum to minimum speed settings.



RAIL17COM0105AA 13

**(8) Power View display**

The Power View display is a multifunctional display that provides information to the operator such as the fuel level, engine hours, engine RPM, coolant temperature, and several other engine function parameters. The display can be adjusted to the operator's preference.



ss12j284

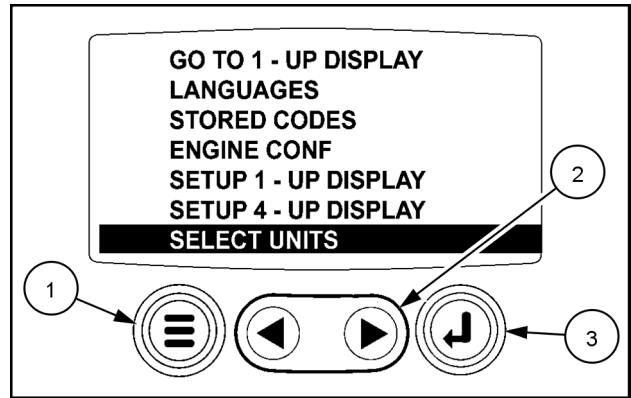
SS12J284 14

## SELECT UNITS

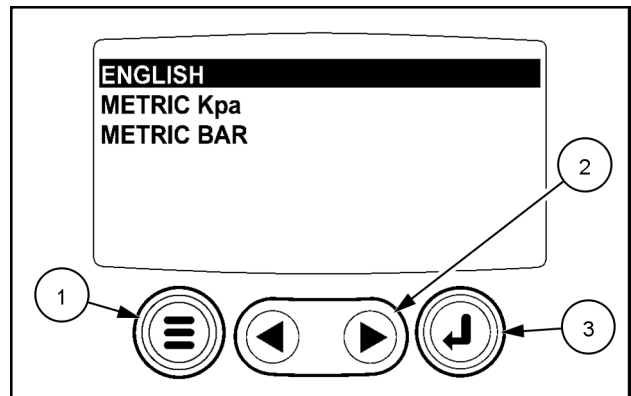
You may choose how your measured information is displayed.

- “ENGLISH” – the variables will be displayed in PSI, °F.
- “METRIC KPA” – the variables are displayed in kPa, °C.
- “METRIC BAR” – the variables are displayed in bar, °C.

1. Press the Menu button **(1)**.
2. Press the Arrow buttons **(2)** until “SELECT UNITS” is highlighted.
3. Press the Enter button **(3)** to view the options.
4. Use the Arrow buttons **(2)** to highlight the desired option.
5. Press the Menu button **(1)** to exit.



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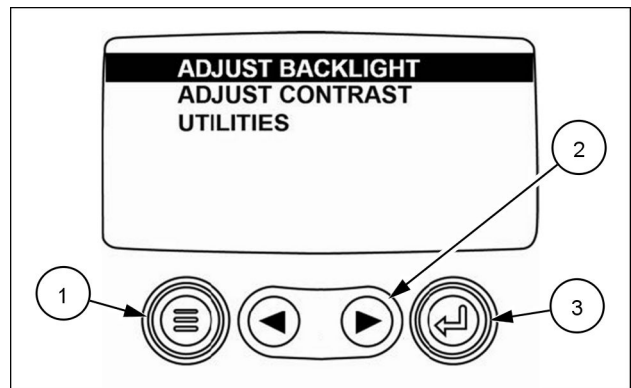


RAIL13COM0172AA 18

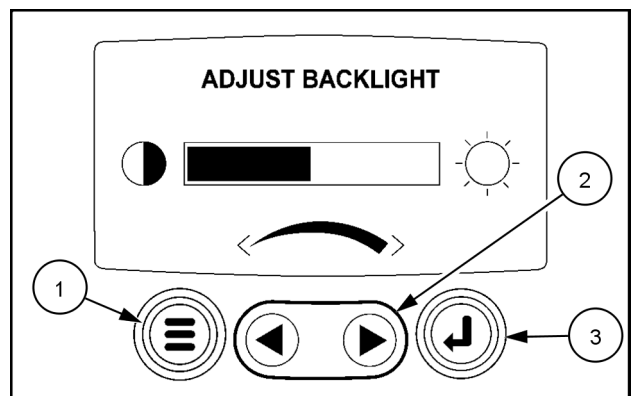
## ADJUST BACKLIGHT

Adjust the intensity of the display's backlight.

1. Press the Menu button **(1)**.
2. Use the Arrow buttons **(2)** until “ADJUST BACKLIGHT” is highlighted.
3. Press the Enter button **(3)** to view the backlight setting.
4. Use the Arrow buttons **(2)** to adjust the backlight intensity.
5. Press Menu button **(1)** to exit.



RAIL13COM0094AA 19



RAIL13COM0169AA 20

## 4 - OPERATING INSTRUCTIONS

### Commissioning the unit

#### Before starting the engine

**▲ WARNING**

**IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY.  
MAKE SURE THAT EVERY OPERATOR:**

- is instructed in the safe and proper use of this machine.
- reads and understands the operator's manual for this machine.
- reads and understands ALL safety signs on the machine.

**Failure to comply could result in death or serious injury.**

W0188A

**▲ WARNING**

**Avoid injury!**  
**Do not operate the machine while under the influence of alcohol or drugs.**  
**Failure to comply could result in death or serious injury.**

W0160A

#### Before starting the engine

1. Perform a daily walk around and visual inspection of the machine.
2. Make sure that the fluids and lubricants are suitable for prevailing conditions.
3. Check the level of all fluids (engine oil, fuel, hydraulic fluid, and coolant).
4. Carry out the daily maintenance operations.
5. Check for loose connections, faulty hoses, oil leaks, debris or trash buildup, loose bolts, damaged, or missing parts that could affect the normal and safe operation of the machine.
6. Make sure no one is standing in the machine working area.

## Traveling on a hill

### ⚠ WARNING

**Driving hazard!**

Hillside operations can be dangerous. Rain, snow, ice, loose gravel, or soft ground, etc. can change the ground conditions. You must make a judgment if it is safe to operate your machine on any hillside or ramp.

Failure to comply could result in death or serious injury.

W0144A

### ⚠ WARNING

**Driving hazard!**

Before driving downhill, turn OFF the transport speed controller.

Failure to comply could result in death or serious injury.

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### ⚠ WARNING

**Roll-over hazard!**

Observe the maximum permissible gradient when driving uphill and across the slope. The values given may be lower depending on traction conditions and the actual machine weight.

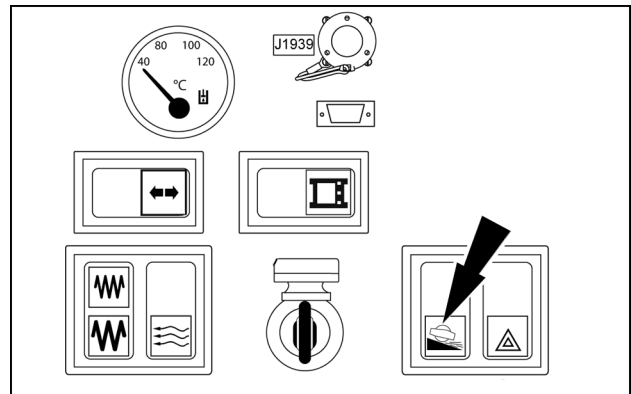
Failure to comply could result in death or serious injury.

W1067A

**NOTICE:** Do not turn off the drum slip limitation switch at high speed. Sudden deceleration (retardation) will occur followed by an impact within the hydraulic system. Turn off the drum slip limitation switch at low speeds or when the machine is stationary.

**NOTE:** Refer to the specifications section in this manual for your machine weight and maximum permissible gradient travel.

When driving in difficult terrain with decreased adhesion, activate the drum slip limitation switch— optional. After passing the difficult terrain, turn off the function.



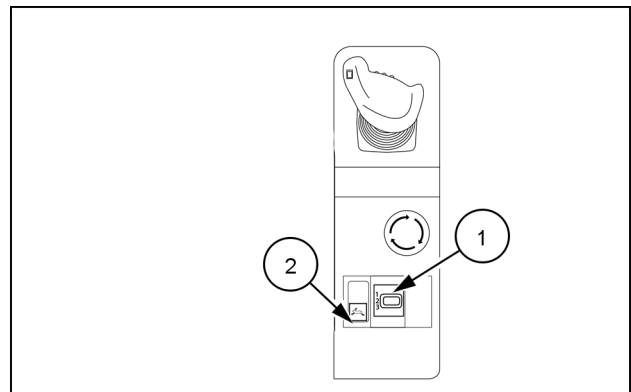
RAIL17COM0098AA 1

## Uphill travel

Use the speed selector switch (1) set to “3” when climbing uphill. This achieves maximum tractive force (gradeability) of the machine.

**NOTE:** When the travel speed switch (2) is ON, the speed selector switch (1) is bypassed and vibration is blocked.

**NOTE:** The Anti-Slip Control (ASC) is an automatic feature and does not require the operator to select the feature.



RAIL17COM0109AA 2

## Recovery transport

### Towing the machine

#### ⚠ WARNING

Transport hazard!  
Follow **ALL** of the precautions listed below.  
Failure to comply could result in death or serious injury.

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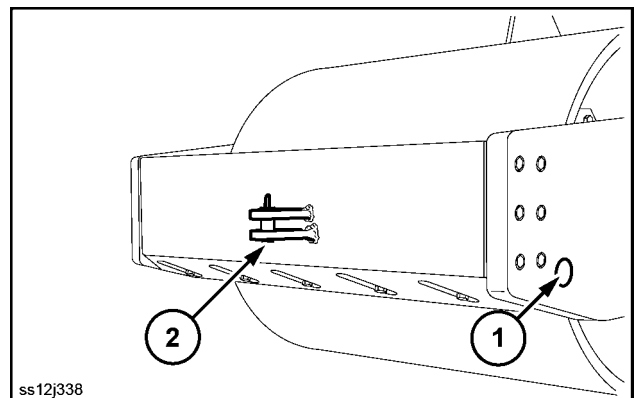
- Before releasing the parking brake, secure the machine with wheel chocks!
- Do not touch hot parts of the machine. Risk of burning!
- Do not start the engine while the machine is being towed!
- Do not tow the machine for a distance over **300 m (984.3 ft)**.
- The maximum speed limit while towing the machine is **2 km/h (1.2 mph)**.
- Due to leakage, the pressure in the brakes may drop during the course of towing.
- Regularly check that the machine brakes do not become hot while towing the machine.
- See also page **2-2**.

**NOTICE:** A sunk machine can be towed for a short distance if the engine is running and the travel drive and steering are operational. The operator on a towed machine must steer the machine in the direction of towing. Unless the engine works, there is a fault in the hydraulic system or the travel pump is malfunctioning, you must release the parking brake and close the hydraulic circuit. See the following pages to release the parking brake and close the hydraulic circuit. When the brakes are released and the hydraulic circuit for travel is closed, all of the brakes are disabled!

**NOTE:** These are general requirements for safe towing of a damaged machine under normal conditions. Consult with your dealer regarding any and all other situations that may occur while towing the machine.

**NOTICE:** The machine is not intended to tow other equipment.

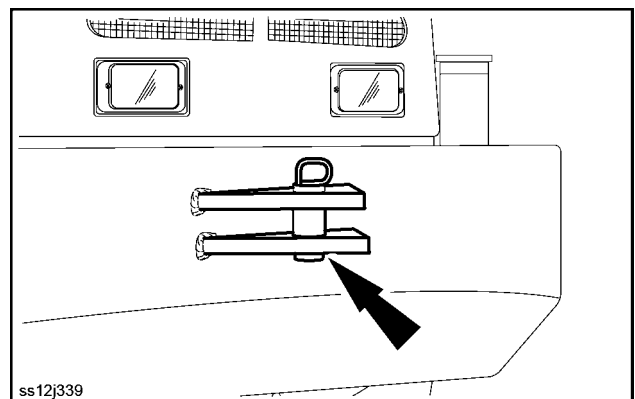
The machine is equipped with the following for towing:  
Two eyelets **(1)** on the drum frames plus a front towing attachment **(2)** (optional).



SS12J338 1

Rear towing attachment.

**NOTICE:** Use both lugs when towing the machine.



SS12J339 2

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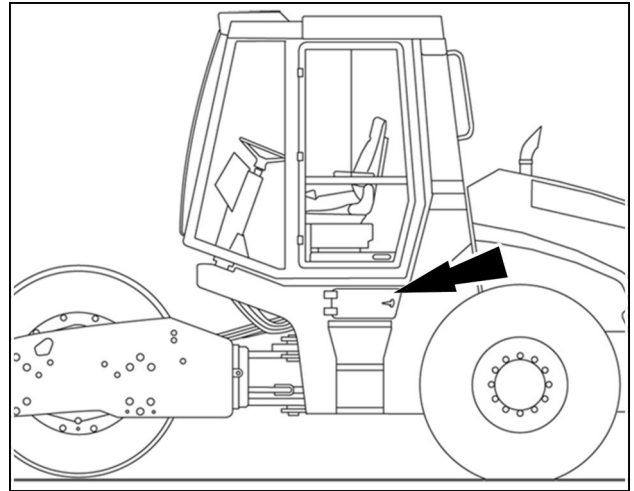
## Operating the machine in extremely dusty environment

When working in an extremely dusty environment, shorten the intervals between:

- Cleaning the air filter element.
- Replacing the air filter element.
- Replacing the cab dust filter.
- Cleaning the radiator grill.

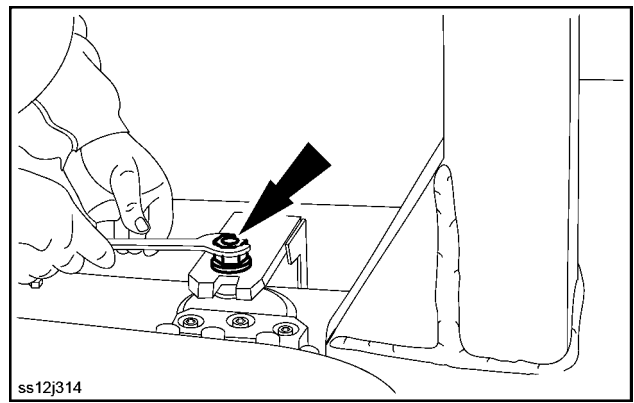
**NOTE:** *The recommended cleaning interval is a minimum of once a week.*

4. Close the side panel on the left-hand side of the machine.



RAIL17COM0211BA 6

5. Secure the operator's cab with the mounting hardware.



ss12j314

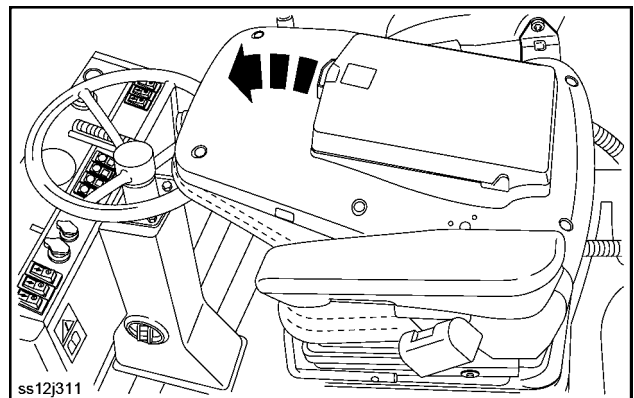
SS12J314 7

## Manual control

### Raise the operator's cab

**NOTE:** If the electric-hydraulic control is inoperative, or if the battery is discharged, raise or lower the cab by the adjustment of the distributors and with a hand pump as described in the following procedures. The distributors are located underneath the cab, inside the frame, on the left-hand side of the machine.

1. Machines with a Roll Over Protective Structure (ROPS) canopy. Fold down the operator seat's backrest and armrests before raising the cab.



ss12j311

SS12J311 8

## Lubrication and maintenance

### ⚠ WARNING

**Maintenance hazard!**

**Before performing any maintenance or inspection:**

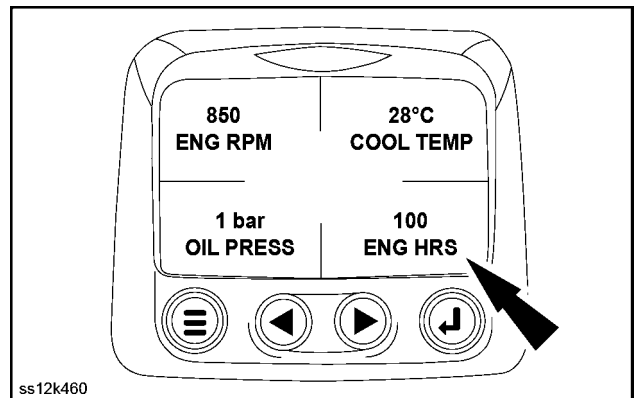
- position machine on a firm, level surface
- turn off the engine
- remove the ignition key
- secure the machine (wheels chocked)
- disconnect the wiring  
(unless instructed otherwise)

**Failure to comply could result in death or serious injury.**

W1071A

**NOTICE:** While any company can perform necessary maintenance or repairs on your equipment, Case Construction strongly recommends that you use only authorized Case Construction dealers and products that meet the given specifications. Improperly or incorrectly performed maintenance and repair voids the equipment warranty and may affect service intervals.

Perform lubrication and maintenance at regularly repeated intervals as per the data reading on the counter of hours actually worked.



ss12k460

SS12K460 1

**NOTICE:** Removed or loose bolts, plugs, threaded joints of the hydraulics, etc. must be tightened to the torque specified in the tables on page 8-15, unless a different value is given with the relevant operation.

**NOTICE:** This manual includes only the basic information about the engine. Other information is given in the "Engine Operation and Maintenance Manual", which is part of the documentation supplied with the machine.

## Diesel fuels - Diesel fuel

Only use diesel fuel that conforms to North American standard **ASTM D975** Grade No. 2-D S15 or equivalent in your engine. Do not use any other low grade diesel fuel.

**NOTICE:** Use of other low grade diesel fuels will result in loss of engine power, high fuel consumption, and damage to the exhaust aftertreatment system (if equipped).

**NOTE:** When operating the machine in very cold climates, the use of winter blended fuel is permitted for a short period of time. See your fuel supplier for winter fuel requirements in your area.

### Fuel conditioner

---

Diesel fuel conditioner is available from your CASE CONSTRUCTION dealer. Instructions for the use of the fuel conditioner is on the container.

The use of diesel fuel conditioner will:

- Clean fuel injectors, valves, and manifolds for increased service life
- Disperse insoluble gummy deposits that form in the fuel system

- Separate moisture from the fuel
- Stabilize fuel in storage

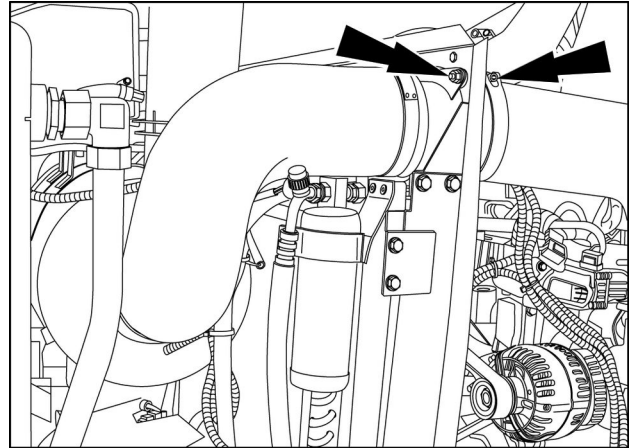
**NOTICE:** Use only CASE CONSTRUCTION approved biocide additives to prevent damage to the exhaust aftertreatment system (if equipped).

## Check the engine and exhaust pipe intake manifold

**NOTICE:** If the exhaust pipe with a flexible part between the engine and the catalytic converter shows any leak or damage, the machine cannot be operated until the defect is fixed.

### Intake manifold

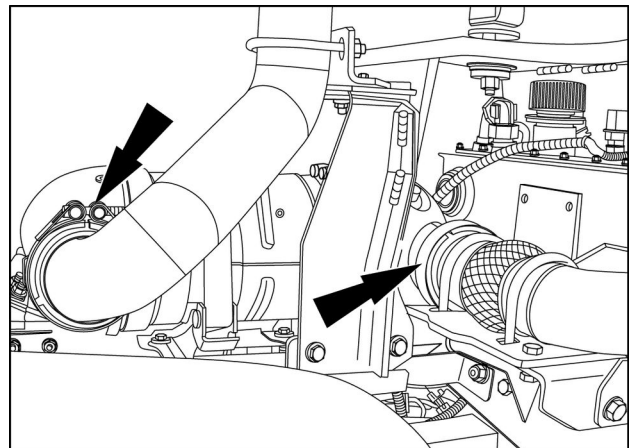
- Check the tightness of the intake manifold.
- Make sure the hoses are not damaged.
- Make sure the tightening clips are not missing.



RAIL17COM0150AA 1

### Exhaust pipe

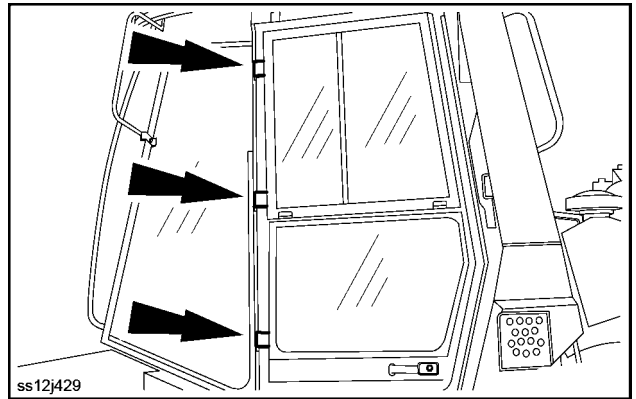
- Check the tightness of the exhaust pipe.
- Make sure the tightening clips are not missing.



RAIL17COM0151AA 2

### Door hinge pins

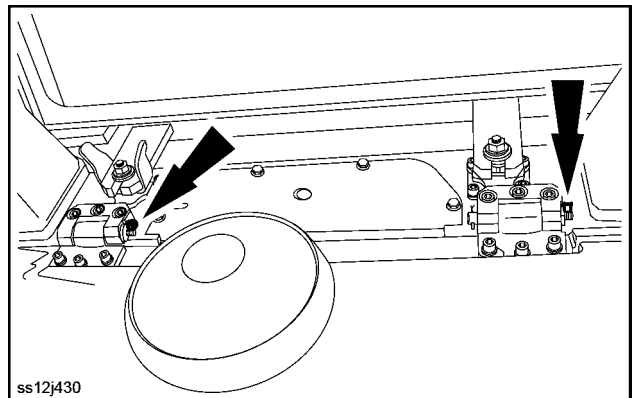
- Pins (six places)



SS12J429 8

### Hood hinge pins

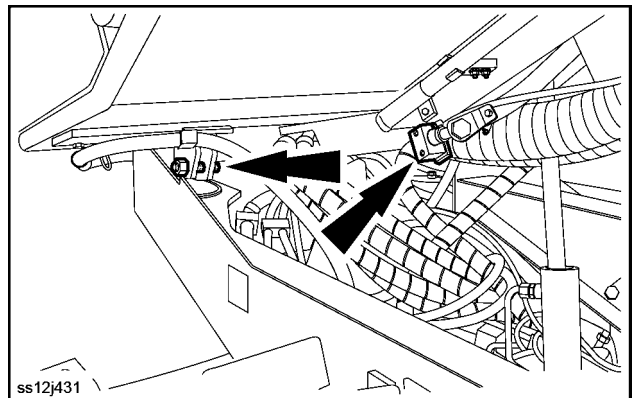
- Pins (two places)



SS12J430 9

### Front pins for cab installation

- Pins (two places)

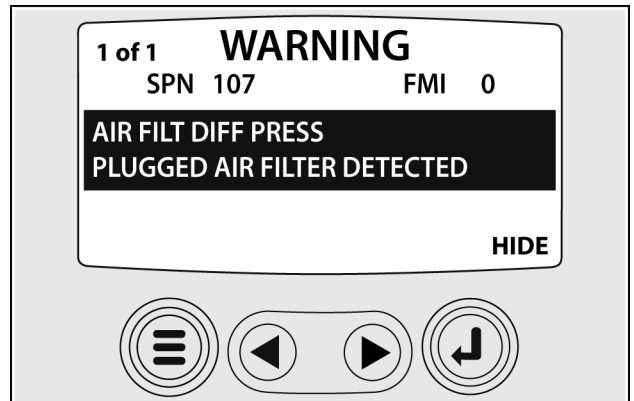


SS12J431 10

## Replace the air filter elements

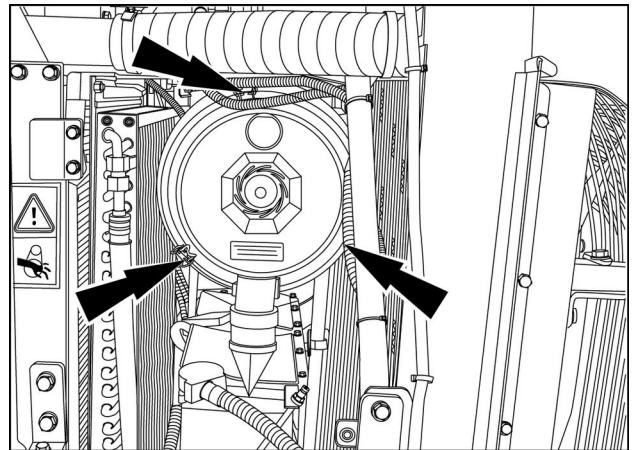
Replace filter elements every 500 hours or six months or when error message SPN 107 FMI 0 is shown on the display. The manufacturer does not recommend cleaning of the elements due to reduced filtration capacity by up to **40%** and due to the risk of damaging the element during cleaning.

**NOTE:** The air filter is made up of the main element and the safety element.



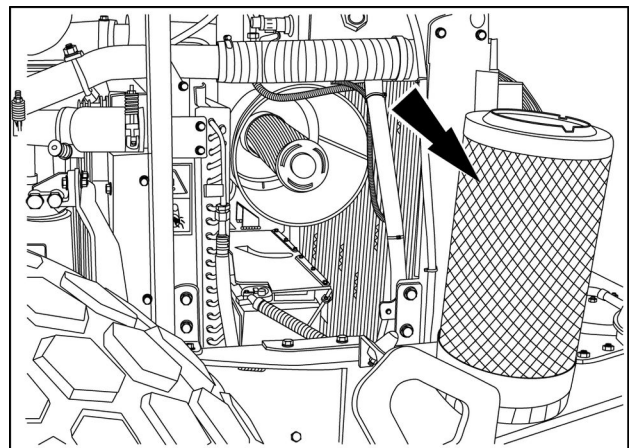
RAIL17COM0091AA 1

1. Lift the hood to the limit position.
2. Open the clamps and remove the cover.



RAIL17COM0162AA 2

3. Carefully remove the main element.



RAIL17COM0163AA 3

## Change the travel transmission fluid

### ⚠ WARNING

#### Burn hazard!

Do not handle any service fluid (engine coolant, engine oil, hydraulic oil, etc.) at temperatures that exceed 49 °C (120 °F). Allow fluids to cool before proceeding.

Failure to comply could result in death or serious injury.

W0330B

### ⚠ WARNING

#### Chemical hazard!

When handling fuel, lubricants, and other service chemicals, follow the manufacturer's instructions. Wear Personal Protective Equipment (PPE) as instructed. Do not smoke or use open flame. Collect fluids in proper containers. Obey all local and environmental regulations when disposing of chemicals.

Failure to comply could result in death or serious injury.

W0371A

**NOTICE:** Drain the oil into a suitable container.

**NOTICE:** Drain oil when operation has ended after allowing the oil to cool down to 49 °C (120 °F), or while operating once the oil has heated up to that temperature.

**NOTICE:** Dispose of all fluids, filters, and containers in an environmentally safe manner in accordance with local laws and regulations. Check with local environmental and recycling centers or your dealer for correct disposal information.

### Transmission fluid

Use **CASE AKCELA GEAR 135 H EP 80W-90** for outdoor temperature -10.0 – 30.0 °C (14.0 – 86.0 °F).

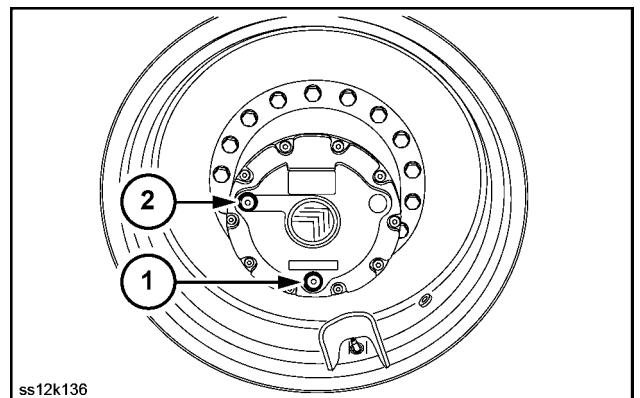
Use **CASE AKCELA TRANSAXLE FLUID 80W-140** for outdoor temperature 20.0 – 45.0 °C (68.0 – 113.0 °F).

**NOTICE:** The operating temperature of the fluid must not exceed 85 – 90 °C (185.0 – 194.0 °F).

**NOTE:** For more oil information, see page 7-14.

### Axle (wheel) transmission

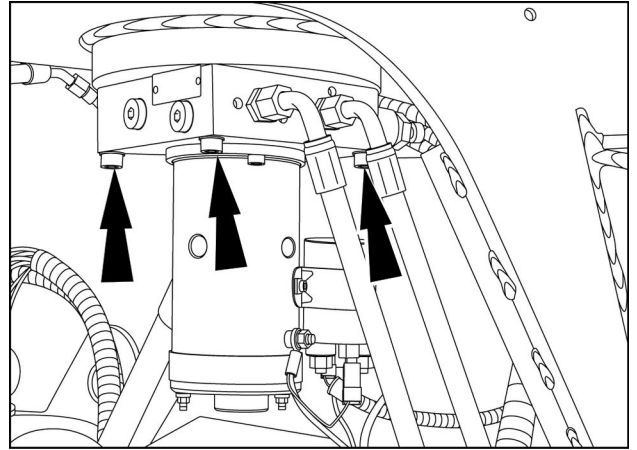
1. Stop the machine on a flat, paved surface so the plugs on the axle transmissions are in the position illustrated in the Figure 1.
2. Clean the spot around the plugs.
3. Place a suitable container under the plug!
4. Remove the plugs (1) and (2), let the fluid drain out and then reinstall plug (1).
5. Use the hole (2) to replenish fluid until its level reaches the hole edge or starts flowing out.
6. Reinstall the plug (2).



ss12k136

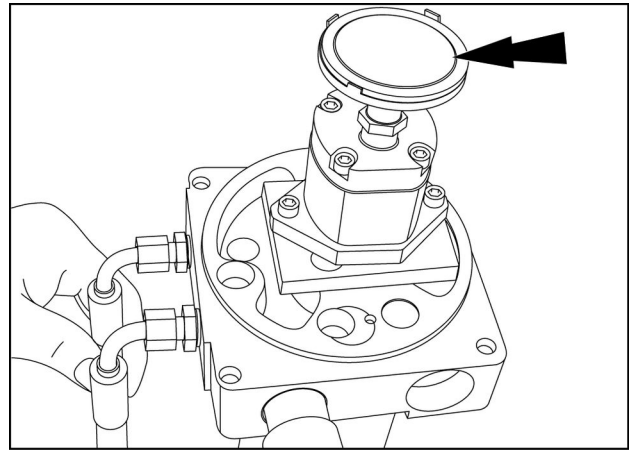
SS12K136 1

16. Remove the cab and hood lift pump from the bottom of the hydraulic tank.



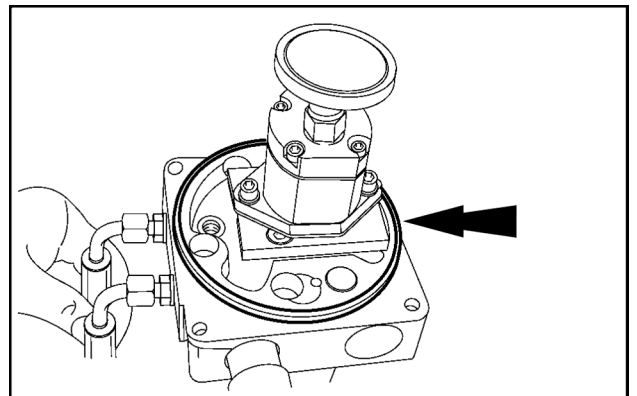
RAIL17COM0202AA 5

17. Remove the suction strainer from the pump.
18. Clean the suction strainer. When necessary replace the strainer.



RAIL17COM0203AA 6

19. Use compressed air and blow out the strainer.
20. Attach the suction strainer to the pump.
21. Inspect the sealing ring. When necessary replace the sealing ring.

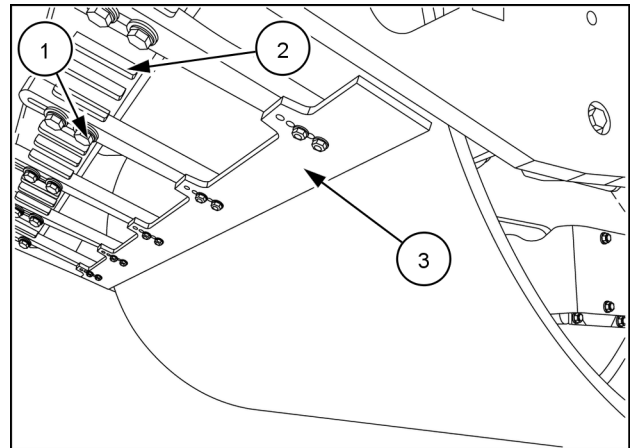


RAIL14COM0194AA 7

## Adjust the scrapers

### Scrapers designed for smooth drum

1. Between the scraper and the drum, loosen the bolts (1)
2. Move the holders (2) 15 mm (0.6 in) towards the drum.

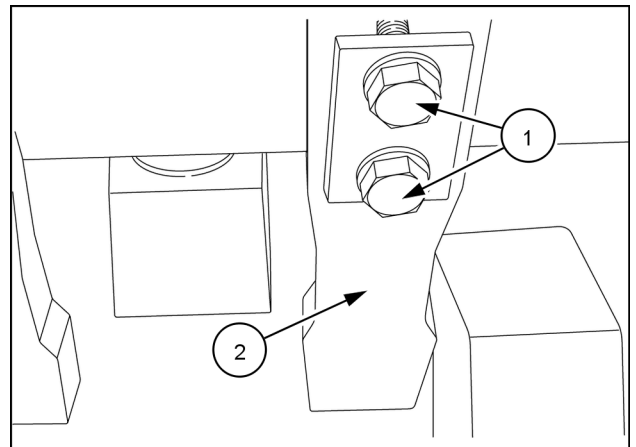


RAIL17COM0190AA 1

**NOTICE:** If it is not possible to shift the scrapers in the oval holes of the holders (2) when the scraper (3) has become worn, remove the scraper (3) and move it towards the drum by one hole.

### Scrapers for pad foot drum

1. Loosen the bolts (1).
2. Move the individual scrapers (2) 25 mm (1.0 in) towards the drum.



RAIL17COM0135AA 2

**NOTICE:** The rear scrapers at the pad foot drum are longer. When replacing worn scrapers, move the rear scrapers to the front and replace the rear scrapers with new scrapers. If there is only a small gap between the scraper and the drum, it is possible there will be contact between the scraper and the drum when the machine turns.

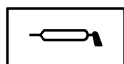


### Transmission fluid

Use **CASE AKCELA GEAR 135 H EP 80W-90** for outdoor temperature **-10.0 – 30.0 °C (14.0 – 86.0 °F)**.

Use **CASE AKCELA TRANSAXLE FLUID 80W-140** for outdoor temperature **20.0 – 45.0 °C (68.0 – 113.0 °F)**.

**NOTICE:** The operating temperature of the fluid must not exceed **85 – 90 °C (185.0 – 194.0 °F)**.



### Lube grease

Use plastic lubricant with lithium content to lubricate the machine:

**CASE AKCELA 251H EP MULTI-PURPOSE GREASE**



### Washer fluid

Use water (up to **0 °C (32 °F)**) and motor vehicle glass washer fluid when filling the washer fluid reservoir.

**NOTICE:** Fill with a winter-rated motor vehicle glass washer fluid when temperatures are below **0 °C (32 °F)**.

Use plastic lubricant with lithium content to lubricate the machine:

Case Akcela Extreme pressure grease moly



### Coolant

Coolant	Water	Temperatures up to
<b>35%</b>	<b>65%</b>	<b>-22 °C (-8 °F)</b>
<b>40%</b>	<b>60%</b>	<b>-28 °C (-18 °F)</b>
<b>45%</b>	<b>55%</b>	<b>-35 °C (-31 °F)</b>
<b>50%</b>	<b>50%</b>	<b>-41 °C (-42 °F)</b>

Part	Type	Quantity	Icon
Engine	Engine oil	<b>10 L (2.64 US gal)</b>	
Fuel tank	Diesel	<b>255 L (67.36 US gal)</b>	
Hydrostatic system	Hydraulic oil	<b>72 L (19.02 US gal)</b>	
Hinge bearings - steering joint and steering cylinders	plastic lubricant with lithium content to lubricate the machine	As required	
Engine cooling system	Year round antifreeze	<b>28.0 L (7.4 US gal)</b>	

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