LO 10A4610-229-12 Logother with TM 104610-229-10 supersedes TM 5-4610-229-10, dated 14 April 1986.

WATER PURIFICATION UNIT, REVERSE OSMOSIS 150, 000 GPD, SKID-MOUNTED, MODEL PD81146 NSN 4610-01-121-0161

Approved for public release; distribution is unlimited

Reference TM 10-4610-229-10 and TM 10-4610-229-24

Intervals and the related task hour times are based on normal operation. The task hour time specified is the time you need to do all the services prescribed for a particular interval. Change the interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including longer- than-usual operating hours. You may extend the interval during periods of low activity, but you must take adequate preservation precautions.

Lubricate immediately after fording, or as soon after as unit movement permits.

Clean fittings before lubricating. Clean parts with solvent, dry cleaning P-D-680 or an approved solvent. Dry fitting before lubricating.

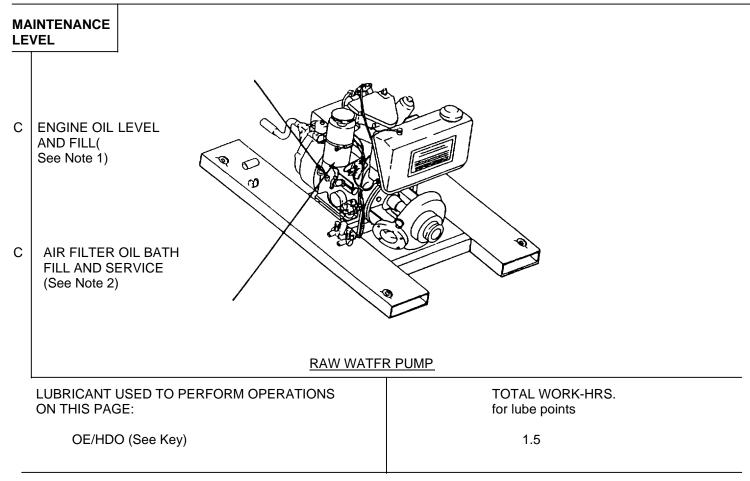
Level of maintenance. The lowest level of maintenance authorized to lubricate a point is indicated by one of the following symbols as appropriate: Operator/Crew (C) and Organizational Maintenance (0).

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REVERSE OSMOSIS WATER PURIFICATION UNIT (4610-01-121-0161)

Reference: TM 10-4610-229-10; TM 10-4610-229-24



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LUBRICANT/COMPONENTS	Refill Capacity	EXPECTED TEMPERATURES*		
		Above +32°F (Above 0°C)	+40°F to -10°F (+4°C to -23°C)	0°F to -65°F (-17°C to -53°C)
	As Required	ALL TEMPERATURES		
Engine	As Required			
OE/HDO: OIL, ICE, Tactical MIL-L-2104/MIL-L-46002		OE/HDO-30	OE/HDO-10	OEA
AIR CLEANER (oil bath)	As Required			

1. ENGINE OIL LEVEL AND FILL

Check engine oil level daily after operating the engine. The engine must be on level ground to obtain an accurate oil level reading.

Checking Procedure:

1. Engine stopped. Check oil level. If oil level is between MAX and MIN hashmarks, the engine is safe to operate.



CAUTION

Do not add oil pass MAX level. Engine damage could occur.

- 2. If oil level is below MIN hashmark, add oil as necessary to bring the level to the MAX hashmark.
- 2. AIR FILTER OIL BATH FILL AND SERVICES
 - 1. Remove filter monthly (TM 10-4610-229-1 0, para 3-3).

CAUTION

Too much oil in filter will cause engine to smoke and possibly overspeed. DO NOT overfill.

2. Fill bottom housing with engine oil to line.

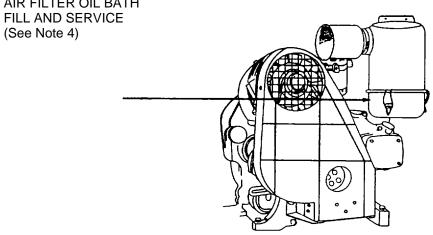
REVERSE OSMOSIS WATER PURIFICATION UNIT (4610-01-121-0161)

Reference: TM 10-4610-229-10; TM 10-4610-229-24

MAINTENANCE LEVEL

С **ENGINE OIL LEVEL** AND FILL (See Note 3)

С AIR FILTER OIL BATH FILL AND SERVICE



BOOST PUMP

LUBRICANT USED TO PERFORM OPERATIONS ON THIS PAGE:

OE/HDO (See Key)

TOTAL WORK-HRS. for lube points

1.5

LUBRICANT/COMPONENTS	Refill Capacity	EXPECTED TEMPERATURES*		
		Above +32°F (Above 0°C)	+40°F to -10°F (+4°C to -23°C)	0°F to -65°F (-17°C to -53°C)
	As Required	ALL TEMPERATURES		3
Engine	As Required	ALL TEMPERATURES		
OE/HDO: OIL, ICE, Tactical MIL-L-2104/MIL-L-46002		OE/HDO-30	OE/HDO-10	OEA
AIR CLEANER (oil bath)	As Required			

3. ENGINE OIL LEVEL AND FILL

Check engine oil level daily after operating the engine. The engine must be on level ground to obtain an accurate oil level reading.

Checking Procedure

1. Engine stopped. Check oil level. If oil level is between MAX and MIN hashmarks, the engine is safe to operate.



CAUTION

Do not add oil pass MAX level. Engine damage could occur.

- 2. If oil level is below MIN hashmark, add oil as necessary to bring the level to the MAX hashmark.
- 4. AIR FILTER OIL BATH FILL AND SERVICE
 - 1. Remove filter monthly (TM 10-4610-229-10, para 3-4).

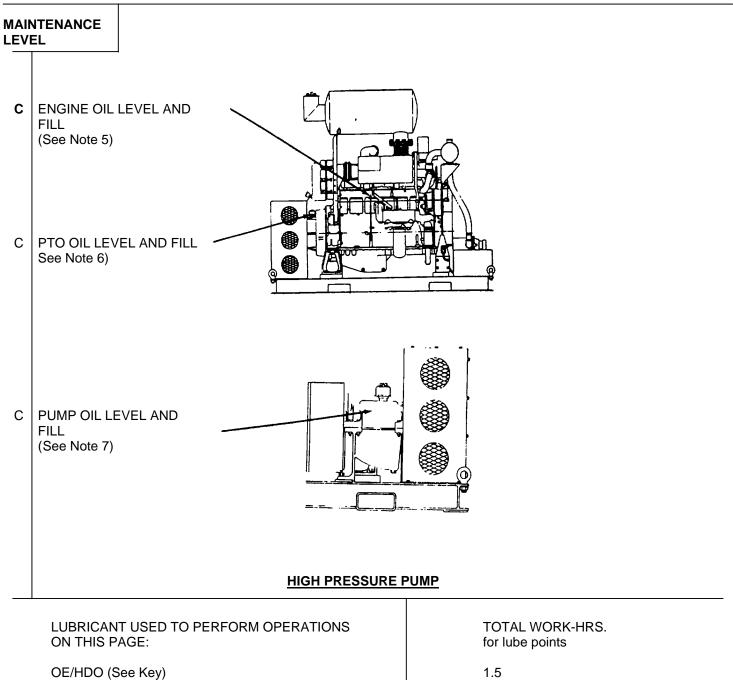
CAUTION

Too much oil in filter will cause engine to smoke and possibly overspeed. DO NOT overfill.

2. Fill bottom housing with engine oil to line.

REVERSE OSMOSIS WATER PURIFICATION UNIT (4610-01-121-0161)

Reference: TM 10-4610-229-10; TM 10-4610-229-24



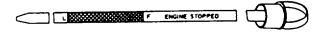
LUBRICANT/COMPONENTS	Refill	EXPECTED TEMPERATURES*		
	Capacity	Above +32°F (Above 0°C)	+40°F to -10°F (+4°C to -23°C)	0°F to -65°F (-17°C to -53°C)
	As Required	ALL TEMPERATURES		
Engine	As Required	ALL ILIVITEDIATORIES		
OE/HDO: OIL, ICE, Tactical MIL-L-2104/MIL-L-46002		OE/HDO-30	OE/HDO-10	OEA
AIR CLEANER (oil bath)	As Required			

5. ENGINE OIL LEVEL AND FILL

Check engine oil level daily after operating the engine. The engine must be on level ground to obtain an accurate oil level reading.

Checking Procedure:

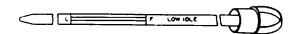
1. Engine stopped. Check oil level. If oil level is between F hashmark and L hashmark, the engine is safe to operate.



CAUTION

Do not add oil pass F hashmark. Engine damage could occur.

- 2. Oil level below L hashmark. Add oil as necessary to bring the level between the L hashmark and F hashmark. DO NOT overfill.
- 3. Engine running at LOW IDLE. Check oil level after engine is at normal operating temperature. If oil level is between F hashmark and L hashmark the engine is safe to operate.



4. Oil level below L hashmark. Repeat step 2.

LUBRICANT/COMPONENTS	Refill	EXPECTED TEMPERATURES*		
	Capacity	Above +32°F (Above 0°C)	+40°F to -10°F (+4°C to -23°C)	0°F to -65°F (-17°C to -53°C)
	As Required	ALL TEMPERATURES		
Engine	As Required	ALL TEMPERATURES		
OE/HDO: OIL, ICE, Tactical MIL-L-2104		OE/HDO-30	OE/HDO-10	OEA
AIR CLEANER (oil bath)	As Required			

6. PTO OIL LEVEL AND FILL

1. Engine stopped check oil level daily. If oil level is between LOW and FULL hashmarks the PTO is safe to operate.



2. Oil level below LOW hashmark, add oil as necessary to bring level between LOW and FULL hashmarks. DO NOT overfill.

7. PUMP OIL LEVEL AND FILL

1. Engine stopped. Check oil level daily. If oil level is between MIN and MAX at sight glass, PUMP is safe to operate.

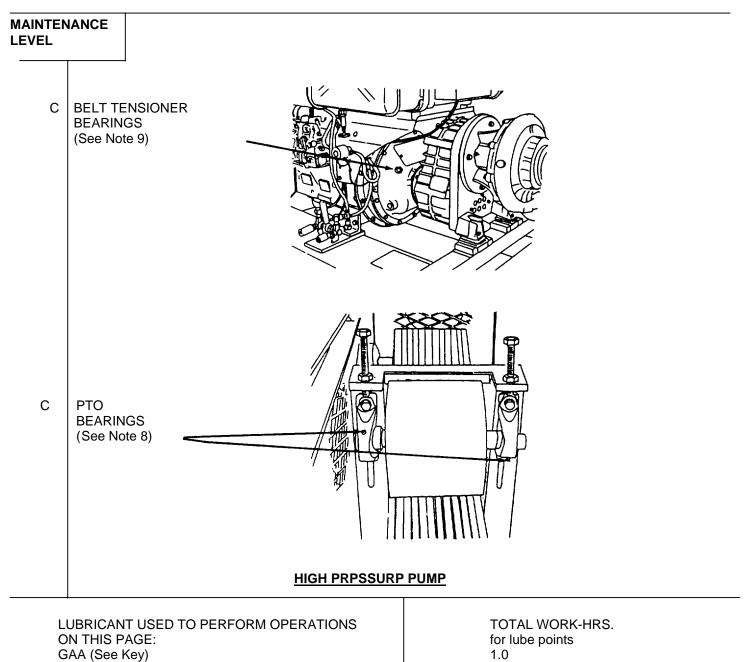


2. Oil level below MIN at sight glass. Add oil as necessary to bring level between MIN and MAX. DO NOT overfill.

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REVERSE OSMOSIS WATER PURIFICATION UNIT (4610-01-121-0161)

Reference: TM 10-4610-229-10; TM 10-4610-229-24



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LUBRICANT/COMPONENTS	Refill Capacity	EXPECTED TEMPERATURES*		
		Above +32°F (Above 0°C)	+40°F to -10°F (+4°C to -23°C)	0°F to -65°F (-17°C to -53°C)
GAA: Grease, Automotive and Artillery MIL-G-10924	As Required	ALL TEMPERATURES		
PTO Bearings Belt Tensioner Bearings	As Required			S
		OE/HDO-30	OE/HDO-10	
	As Required			

8. PTO BEARINGS

Clean grease from fitting using a clean, lint-free, dry cloth (TM 10-4610-229-10, appendix D, item 9). Using a hand pump grease gun, pump handle three times.

9. BELT TENSIONER BEARINGS

Clean grease from fittings using a clean, lint-free, dry cloth (TM 10-4610-229-10, appendix D, item 9). Using a hand pump grease gun, pump handle until grease appears. Wipe off excess grease.

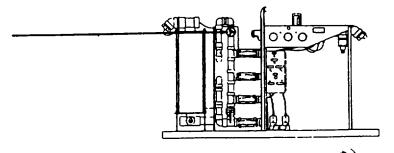
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REVERSE OSMOSIS WATER PURIFICATION UNIT (4610-01-121-0161)

Reference: TM 10-4610-229-1 0; TM 10-4610-229-24

MAINTENANCE LEVEL

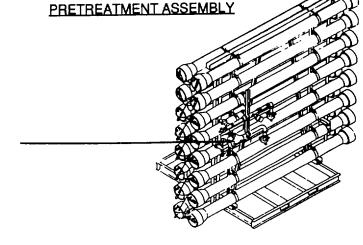
CONTROL VALVE (See Note 10)





THROTTLING VALVE (See Note 10)

OIL CAN POINTS С (See Note 11)



REVERSE OSMOSIS BLOCK ASSEMBLY

LUBRICANT USED TO PERFORM OPERATIONS ON THIS PAGE:

GAA; OE/HDO (See Key)

TOTAL WORK-HRS. for lube points

1.0

LUBRICANT/COMPONENTS	D-401	EXPECTED TEMPERATURES*		
	Refili Capacity	Above +32°F (Above 0°C)	+40°F to -10°F (+4°C to -23°C)	0°F to -65°F (-17°C to -53°C)
GAA: Grease, Automotive and Artillery MIL-G-10924 CONTROL VALVE	As Required	ALL TEMPERATURES		
THROTTLING VALVE	As Required	ALE TEMPETIATORES		
OE/HDO: OIL, ICE, Tactical MIL-L-2104		OE/HDO-30	OE/HDO-10	······································
OIL CAN POINTS	As Required			

10. CONTROL VALVE AND THROTTLING VALVE

Clean grease from fitting using a clean, lint-free, dry cloth (TM 10-4610-229-10, appendix D, item 9). Using a hand pump grease gun, pump handle until grease appears. Wipe off excess grease.

11. OILCANPOINTS

Quarterly lubricate all hinges and latches.

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By Order of the Secretary of the Army:

CARL E. VUONO

General, United States Army Chief of Staff

Official:

PATRICIA P. HICKERSON

Colonel, United States Army The Adjutant General

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