

GROVE

INSPECTION & LUBRICATION SERVICE LOG

Ordering Part Number: 9828100654

Rough Terrain and Truck Mount

Introduction

Purposes of this manual:

- 1) To serve as a guide when making required inspections & lubrications on your Grove Crane. Refer to your Crane Operator's and/or Service Manual, and your Engine Operation and Maintenance Manual, for details.
- 2) To serve as a one year permanent written log of the inspection & lubrication service activity on your Grove Crane.

How to use this manual:

Signature Verification Record Page:
Each person to inspect and/or lubricate this Crane is required to print/sign/initial their name.

Inspection & Lubrication Service Log Pages:

- 1) Check off each item as satisfactory completed.
- 2) Leave blank items that were found unsatisfactory.
- 3) Record initials of person performing the tasks outlined. Record hour meter readings (not for Daily or 10 Hour checks).
- 4) For unsatisfactory items record each in the Service & Repair Record pages in the back of this manual.

Notes:

- 1) Before performing any inspection on the Crane the inspector must have read the Safety section of the Operator's manual.
- 2) The same inspector who performed the initial inspection when the item was considered as unsatisfactory should perform the inspection after repairs, adjustments, etc., have been performed.
- 3) Lubrication is to be performed in accordance with instructions in the Operator's Manual and only after reading the Safety section of the Operator's Manual.
- 4) You will need a separate Service Log for each shift your crane is operated.
- 5) Ordering part number for additional copies of this manual is 9828100654.
- 6) Items that apply, or do not apply, to specific models are noted in the "Items" column. If specific models are not noted it applies to all models.

This manual is not intended to replace any preoperational checks required by an owner or local or state safety board.

Service & Repair Record Pages:
Record problems and resolutions on these pages.

Manual Content:

- Page 3 Daily or 10 Hour []
Page 27 Weekly or 50 Hour []
Page 31 Monthly or 250 Hour []
Page 35 3 Month, 6 Month, 12 Month, or 400/500 Hour []
Page 39 6, 12, 24, 36 Month, or 1000, 2000, 3000, 4000 Hour []
Page 42 Monthly - Storage Cranes Only []
Page 44 1000 Mile []
Page 46 Signature Verification Record
Page 47 Service & Repair Record

Introduction



Published 8-11-2009, Control # 242-03

GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Task to Perform		Code	Daily or 10 Hour Check List	
Is item properly installed on machine		1	Check for cracked or broken structures and welds	16
Check for cracked or broken glass		2	Service as required by engine manufacturer	17
Check for proper working order		3	Lubricate	18
Check for proper service/level and fill/replace if needed		4	Check connectors and wiring for proper alignment and insulation	19
Check for proper reading while operating engine		5	Check wire for damaged, frayed, or broken strands	20
Check for excess dirt, grease, or foreign matter		6	Check for proper inflation/pressure	21
Check for proper operation while operating machine		7	Check for loose or damaged wiring	22
Check for proper adjustment		8	Check that clamps are tight and not corroded	23
Check for cracks or leaks		9	Check complete path for any condition that could damage rope	24
Check for excessive wear		10	Replace	25
Check torque		11	Check for leaks at connection points	26
Clean or replace as needed		12	Drain and fill	27
Drain moisture		13	Inspect for contaminants and other problems	28
Change filter		14	Check for proper lubrication	29
Check for deterioration, damage or excessive wear		15		30

Daily or 10 Hour Check List



GROVE

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Daily or 10 Hour Check List



GROVE

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2	Anti-two Block (A2B) Elec. & Hyd.	7, 19																																	
3	Back-up Alarm	7																																	
4	Boom and Attachments	1, 6, 7																																	
5	Boom Angle Indicator	7																																	
6	Brakes (Swing, Foot & Parking)	3, 7																																	
7	Brakes and Air System (if equipped)	3, 7, 13																																	
8	Cooling System (TM500E-2 Carrier and Superstructure)	4																																	
9	Crankcase (TM500E-2 Carrier and Superstructure)	4, 6																																	
10	Decals	15																																	
11	Fuel Tank (TM500E-2 Carrier and Superstructure)	4																																	
12	Fuel/Water Separator - Primary (TM500E-2 Carrier and Superstructure)	13																																	
13	Gauges and Instruments	3, 5, 7																																	
14	Hoists	1, 6, 7																																	
15	Hook Block & Headache Ball Safety Latch	3, 9, 10																																	
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Daily or 10 Hour Check List

Daily or 10 Hour Check List



GROVE

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GROVE

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GROVE

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GROVE

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GROVE

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13	Gauges and Instruments	3, 5, 7																																		
14	Hoists	1, 6, 7																																		
15	Hook Block & Headache Ball Safety Latch	3, 9, 10																																		
16	Hourmeter (TM500E-2 Carrier and Superstructure)	3, 5, 19																																		
17	Hydraulic Oil Filler	4																																		
18	Hydraulic Tank	4, 6																																		
19	Load Moment Indicator	7, 19, 22																																		
20	Lock-out Cylinder & Slew Potentiometer	7, 8																																		
21	Operator's Manual	1																																		
22	Power Steering Reservoir (TM500E-2)	4																																		
23	Signal and Running Lights & Horn	2, 3																																		
24	Steps and Ladders	6, 15, 16																																		
25	Tires	6, 10, 21																																		
26	Transmission/Torque Converter	4																																		
27	Wire Rope	15, 20, 29																																		
Inspector's Initials:																																				
Daily or 10 Hour Check List			December																																	



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Weekly or 50 Hours Check List

Task to Perform	Code	Task to Perform	Code
Is item properly installed on machine	1	Check for cracked or broken structures and welds	16
Check for cracked or broken glass	2	Service as required by engine manufacturer	17
Check for proper working order	3	Lubricate	18
Check for proper service/level and fill/replace if needed	4	Check connectors and wiring for proper alignment and insulation	19
Check for proper reading while operating engine	5	Check wire for damaged, frayed, or broken strands	20
Check for excess dirt, grease, or foreign matter	6	Check for proper inflation/pressure	21
Check for proper operation while operating machine	7	Check for loose or damaged wiring	22
Check for proper adjustment	8	Check that clamps are tight and not corroded	23
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	25
Check torque	11	Check for leaks at connection points	26
Clean or replace as needed	12	Drain and fill	27
Drain moisture	13	Inspect for contaminants and other problems	28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30

Weekly or 50 Hours Check List



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Weekly or 50 Hours Check List

Task to Perform	Code	Task to Perform	Code
Is item properly installed on machine	1	Check for cracked or broken structures and welds	16
Check for cracked or broken glass	2	Service as required by engine manufacturer	17
Check for proper working order	3	Lubricate	18
Check for proper service/level and fill/replace if needed	4	Check connectors and wiring for proper alignment and insulation	19
Check for proper reading while operating engine	5	Check wire for damaged, frayed, or broken strands	20
Check for excess dirt, grease, or foreign matter	6	Check for proper inflation/pressure	21
Check for proper operation while operating machine	7	Check for loose or damaged wiring	22
Check for proper adjustment	8	Check that clamps are tight and not corroded	23
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	25
Check torque	11	Check for leaks at connection points	26
Clean or replace as needed	12	Drain and fill	27
Drain moisture	13	Inspect for contaminants and other problems	28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30

Weekly or 50 Hours Check List



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Monthly or 250 Hours Check List

Task to Perform	Code	Task to Perform	Code
Is item properly installed on machine	1	Check for cracked or broken structures and welds	16
Check for cracked or broken glass	2	Service as required by engine manufacturer	17
Check for proper working order	3	Lubricate	18
Check for proper service/level and fill/replace if needed	4	Check connectors and wiring for proper alignment and insulation	19
Check for proper reading while operating engine	5	Check wire for damaged, frayed, or broken strands	20
Check for excess dirt, grease, or foreign matter	6	Check for proper inflation/pressure	21
Check for proper operation while operating machine	7	Check for loose or damaged wiring	22
Check for proper adjustment	8	Check that clamps are tight and not corroded	23
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	25
Check torque	11	Check for leaks at connection points	26
Clean or replace as needed	12	Drain and fill	27
Drain moisture	13	Inspect for contaminants and other problems	28
Change filter	14	Check for proper lubrication	29
Check for deterioration, damage or excessive wear	15		30

Monthly or 250 Hours Check List



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Monthly or 250 Hours Check List

Task to Perform	Code	Task to Perform	Code
Is item properly installed on machine	1	Check for cracked or broken structures and welds	16
Check for cracked or broken glass	2	Service as required by engine manufacturer	17
Check for proper working order	3	Lubricate	18
Check for proper service/level and fill/replace if needed	4	Check connectors and wiring for proper alignment and insulation	19
Check for proper reading while operating engine	5	Check wire for damaged, frayed, or broken strands	20
Check for excess dirt, grease, or foreign matter	6	Check for proper inflation/pressure	21
Check for proper operation while operating machine	7	Check for loose or damaged wiring	22
Check for proper adjustment	8	Check that clamps are tight and not corroded	23
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	25
Check for torque	11	Check for leaks at connection points	26
Clean or replace as needed	12	Drain and fill	27
Drain moisture	13	Inspect for contaminants and other problems	28
Change filter	14	Check for proper lubrication	29
Check for deterioration, damage or excessive wear	15		30

Monthly or 250 Hours Check List



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items	Inspection Code	Note	Monthly or 250 Hours Check List															
				Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec				
20	Hydraulic Pump - Cab Tilt (TMS600E-2)	28																	
21	Internal Side & Bottom Wear Pads (TMS600E-2, TMS800E)	18	250 Hrs or 3 Months																
22	Jib & Lattice Extension Pins (if equipped)	1, 15																	
23	Mast Pivot Pin (TMS9000E)	18	Every 100 hours																
24	Pivot Shaft - Boom	18	250 Hrs or 3 Months																
25	Pump Drive (TMS700E)	4	100 Hrs or monthly																
26	Pump Drive Shaft U-Joints (TMS600E, TMS9000E, TMS700E, TMS800E)	18																	
27	Radiator	16																	
28	Rear-Rear Axle Bowl (TM Models)	4																	
29	Slide Wear Pads - Boom (RT Models)	18	250 Hrs or 3 Months																
30	Steering Relay Arms (TMS600E, TMS700E, TMS800E, TMS9000E)	18																	
31	Swingaway Hanger Wear Pads (RT Models)	18																	
32	Telescope Lock Pins - Boom (TMS600E, TMS9000E)	18	250 Hrs or 3 Months																
33	Turntable Bolts	11	First 300 Hours																
34	Turntable Gearbox	27	First 250 hours																
35	Valves & Cylinders	9, 16																	
36	10m Section Pivot Pin (TMS9000E)	18	Every 100 hours																
Page 2 of 2				Inspector's Initials:															
Hourmeter Reading:																			
Monthly or 250 Hours Check List																			



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

3 Months, 6 Months, 12 Months, or 500 Hour Check List (400 Hour if Noted)			
Task to Perform	Code	Task to Perform	Code
Is item properly installed on machine	1	Check for cracked or broken structures and welds	16
Check for cracked or broken glass	2	Service as required by engine manufacturer	17
Check for proper working order	3	Lubricate	18
Check for proper service/level and fill/replace if needed	4	Check connectors and wiring for proper alignment and insulation	19
Check for proper reading while operating engine	5	Check wire for damaged, frayed, or broken strands	20
Check for excess dirt, grease, or foreign matter	6	Check for proper inflation/pressure	21
Check for proper operation while operating machine	7	Check for loose or damaged wiring	22
Check for proper adjustment	8	Check that clamps are tight and not corroded	23
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	25
Check torque	11	Check for leaks at connection points	26
Clean or replace as needed	12	Drain and fill	27
Drain moisture	13	Inspect for contaminants and other problems	28
Change filter	14	Note: At 400 hours for TMS600E, TMS700E, TMS800E, TMS9000E	29
Check for deterioration, damage or excessive wear	15		30

3 Months, 6 Months, 12 Months, or 500 Hour Check List (400 Hour if Noted)



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

3 Months, 6 Months, 12 Months, or 500 Hour Check List (400 Hour if Noted)

Task to Perform	Code	Task to Perform	Code
Is item properly installed on machine	1	Check for cracked or broken structures and welds	16
Check for cracked or broken glass	2	Service as required by engine manufacturer	17
Check for proper working order	3	Lubricate	18
Check for proper service/level and fill/replace if needed	4	Check connectors and wiring for proper alignment and insulation	19
Check for proper reading while operating engine	5	Check wire for damaged, frayed, or broken strands	20
Check for excess dirt, grease, or foreign matter	6	Check for proper inflation/pressure	21
Check for proper operation while operating machine	7	Check for loose or damaged wiring	22
Check for proper adjustment	8	Check that clamps are tight and not corroded	23
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	25
Check torque	11	Check for leaks at connection points	26
Clean or replace as needed	12	Drain and fill	27
Drain moisture	13	Inspect for contaminants and other problems	28
Change filter	14	Note: At 400 hours for TMS600E, TMS700E, TMS800E, TMS9000E	29
Check for deterioration, damage or excessive wear	15	Note: At 1000 hours or 12 months for TMS9000E	30

3 Months, 6 Months, 12 Months, or 500 Hour Check List (400 Hour if Noted)



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours

Task to Perform		Code	Task to Perform		Code
Is item properly installed on machine		1	Check for cracked or broken structures and welds		16
Check for cracked or broken glass		2	Service as required by engine manufacturer		17
Check for proper working order		3	Lubricate		18
Check for proper service/level and fill/replace if needed		4	Check connectors and wiring for proper alignment and insulation		19
Check for proper reading while operating engine		5	Check wire for damaged, frayed, or broken strands		20
Check for excess dirt, grease, or foreign matter		6	Check for proper inflation/pressure		21
Check for proper operation while operating machine		7	Check for loose or damaged wiring		22
Check for proper adjustment		8	Check that clamps are tight and not corroded		23
Check for cracks or leaks		9	Check complete path for any condition that could damage rope		24
Check for excessive wear		10	Replace		25
Check torque		11	Check for leaks at connection points		26
Clean or replace as needed		12	Drain and fill		27
Drain moisture		13	Clean plug		28
Change filter		14	Laboratory analyze		29
Check for deterioration, damage or excessive wear		15			30

6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE LOG

6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours

Line Item	Items	Inspection Code	6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours																		
			Hours (or)	Months	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec					
1	Axle Differentials (RT Models)	9	1000	6 Months																	
2	Axle Differentials (RT Models)	9, 27	4000	24 Months																	
3	Axle Planetary/Hubs - Front (RT Models)	3	1000	6 Months																	
4	Axle Planetary/Hubs - Rear (RT Models)	3	1000	6 Months																	
5	Boom Wear Pads (RT Models)	10, 12	1000	6 Months																	
6	Brake Lines	3, 10	1000	6 Months																	
7	Cab Tilt Pump (TM500E-2)	18	As needed	As needed																	
8	Coolant Strainer (Not on TMS9000E)	12	2000	12 Months																	
9	Cooling System (RT530E-2, RT540E, RT600E, RT700E)	9, 27	2000	12 Months																	
10	Cooling System (TM Models)	9, 27	2000	12 Months																	
11	Cooling System Filter (TMS800E, TMS9000E)	14	2000	12 Months																	
12	Front Axle Brake Camshafts (TM Models)	18	1000																		
13	Front Axle Brake Slack Adjusters (TM Models)	18	1000																		
14	Front Axle King Pins (TM Models)	18	1000																		
15	Front Axle Tie Rod Ends (TM Models)	18	1000																		
16	Front-Rear Axle Bowl (TM Models)	14, 27, 28	50,000 Miles	24 Months																	
17	Hoists	9, 27	1000	12 Months																	
18	Hydraulic Oil	29	2000	24 Months																	
19	Miter Box, Steering (TM500E-2)	18	1000	12 Months																	
20	Power Steering Gearbox (TMS600E, TMS700E, TMS800E, TMS9000E)	18	1000	6 Months																	
Inspector's Initials:																					
Hourmeter Reading:																					

6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours

Task to Perform	Code	Task to Perform	Code
Is item properly installed on machine	1	Check for cracked or broken structures and welds	16
Check for cracked or broken glass	2	Service as required by engine manufacturer	17
Check for proper working order	3	Lubricate	18
Check for proper service/level and fill/replace if needed	4	Check connectors and wiring for proper alignment and insulation	19
Check for proper reading while operating engine	5	Check wire for damaged, frayed, or broken strands	20
Check for excess dirt, grease, or foreign matter	6	Check for proper inflation/pressure	21
Check for proper operation while operating machine	7	Check for loose or damaged wiring	22
Check for proper adjustment	8	Check that clamps are tight and not corroded	23
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	25
Check torque	11	Check for leaks at connection points	26
Clean or replace as needed	12	Drain and fill	27
Drain moisture	13	Clean plug	28
Change filter	14	Laboratory analyze	29
Check for deterioration, damage or excessive wear	15		30

6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE LOG

6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours

Line Item	Items	Inspection Code	Hours (or)	Months	6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours														
					Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec			
21	Retarder (RT9130E)	18	2000	12 Months															
22	Rear Axle Brake Camshafts (TM Models)	18	1000																
23	Rear Axle Brake Slack Adjusters (TM Models)	18	1000																
24	Rear-Rear Axle Bowl (TM Models)	27, 28	50,000 Miles	24 Months															
25	Spring Eye Bushings/Shackles (TMS00E-2)	18	1000	12 Months															
26	Steer Connecting Rod (TMS00E-2)	18	1000																
27	Swing Gearbox (RT Models)	9, 27	1000	6 Months															
28	Transmission (TMS00E-2)	27	3000 hrs or 75,000 miles	36 Months															
29	Transmission (TMS700E, TMS800E, TMS9000E)	27	50,000 Miles	24 Months															
30	Transmission Filter (TMS600E, TMS800E, TMS9000E)	14	3000																
31	Transmission Filter (TMS9000E)	14	50,000 Miles	24 Months															
32	Transmission, Automatic (TMS600E)	14, 27	3000 hrs or 9000 miles	36 Months															
33	Transmission, Standard (TMS600E)	14, 27	60,000 Miles	12 Months															
34	Transmission/Torque Converter (RT Models)	9, 27	1000	6 Months															
35	Turntable Gear Box	27	1000	12 Months															
36	Wire Rope	15, 18, 20	1000	12 Months															
37																			
Page 2 of 2					Inspector's Initials:														
Hourmeter Reading:																			

6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Task to Perform		Code	Task to Perform		Code
Is item properly installed on machine		1	Check for cracked or broken structures and welds		16
Check for cracked or broken glass		2	Service as required by engine manufacturer		17
Check for proper working order		3	Lubricate		18
Check for proper service/level and fill/replace if needed		4	Check connectors and wiring for proper alignment and insulation		19
Check for proper reading while operating engine		5	Check wire for damaged, frayed, or broken strands		20
Check for excess dirt, grease, or foreign matter		6	Check for proper inflation/pressure		21
Check for proper operation while operating machine		7	Check for loose or damaged wiring		22
Check for proper adjustment		8	Check that clamps are tight and not corroded		23
Check for cracks or leaks		9	Check complete path for any condition that could damage rope		24
Check for excessive wear		10	Replace		25
Check torque		11	Check for leaks at connection points		26
Clean or replace as needed		12	Drain and fill		27
Drain moisture		13	Clean plug		28
Change filter		14	Laboratory analyze		29
Check for deterioration, damage or excessive wear		15	Check things that will affect proper operation		30

Monthly - Storage Cranes Only



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items	Inspection Code	Note	Monthly - Storage Cranes Only																	
				Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec						
1	Hydraulic Oil	4, 26																			
2	Lights and Alarms	3																			
3	Engine Oil	4																			
4	Engine Coolant	4																			
5	Transmission/torque Converter	4																			
6	Overall Crane	30																			
7	LMI System	3																			
8	Tire Pressure	4																			
9	Engine Starting, Oil Pressure, Voltage and Operating Temperature	5																			
10	Boom	3	Lift and Telescope 2 cycles																		
11	Outriggers	3	In Out, Up, Down 2 cycles																		
12	Tumble	3	Two revolutions both directions																		
13	Hoist	3	High/Low speeds both directions																		
14	Hydraulic/Air Suspension	3	Two cycles																		
15	Drive Train	3	Forward and reverse all gears to include 4 wheel drive																		
16	Steering	3	Fully left and right																		
17	Corrosion Protection	1	Visually check																		
18	Cylinder Rods' Surface Protection	1	Visually check																		
19																					
20																					
<i>Inspector's Initials:</i>																					
<i>Hourmeter Reading:</i>																					
Monthly - Storage Cranes Only																					



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Task to Perform		Code	Task to Perform		Code
Is item properly installed on machine		1	Check for cracked or broken structures and welds		16
Check for cracked or broken glass		2	Service as required by engine manufacturer		17
Check for proper working order		3	Lubricate		18
Check for proper service/level		4	Check connectors and wiring for proper alignment and insulation		19
Check for proper reading while operating engine		5	Check wire for damaged, frayed, or broken strands		20
Check for excess dirt, grease, or foreign matter		6	Check for proper inflation/pressure		21
Check for proper operation while operation machine		7	Check for loose or damaged wiring		22
Check for proper adjustment		8	Check that clamps are tight and not corroded		23
Check for cracks or leaks		9	Check complete path for any condition that could damage rope		24
Check for excessive wear		10	Replace		25
Check torque		11	Check for leaks at connection points		26
Clean or replace		12	Drain and fill		27
Drain moisture		13			28
Change filter		14			29
Check for deterioration, damage or excessive wear		15			30

1000 Mile Check List

1000 Mile Check List



