

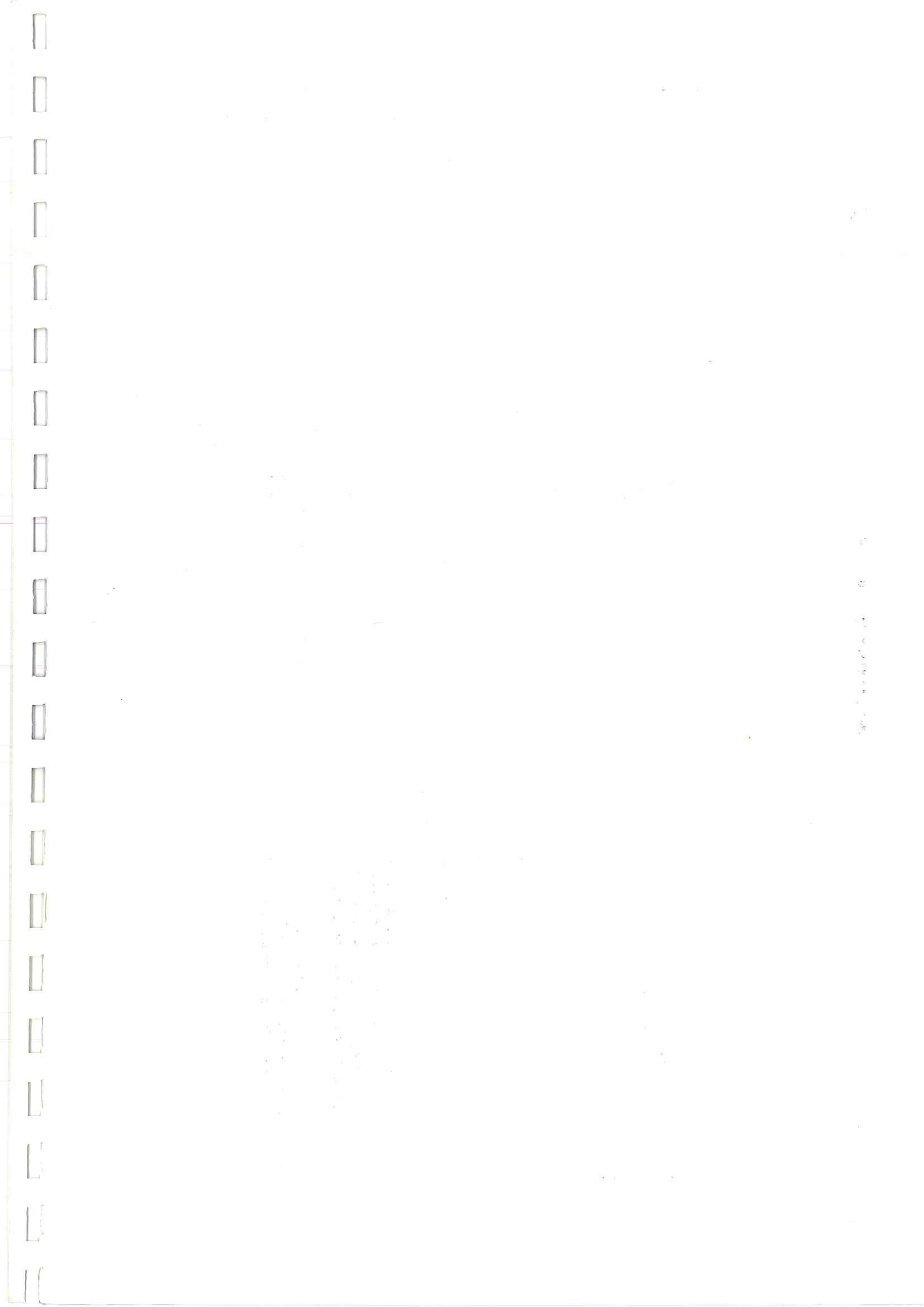


Model :
Year :

Manitowoc
Crane Care

GROVE

RT530E-2 - n° 258400 - GB
Maintenance Lub Manual



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.

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	

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.

Introduction



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

GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

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



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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
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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



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RT & TM INSPECTION & LUBRICATION SERVICE CODES

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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

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List	
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Check for proper lubrication	29
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RT & TM INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List

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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



RT & TM INSPECTION & LUBRICATION SERVICE CODES

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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



RT & TM INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List	
Task to Perform	Code
Is item properly installed on machine	1
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Check for excessive wear	10
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Task to Perform	Code
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Replace	25
Check for leaks at connection points	26
Drain and fill	27
Inspect for contaminants and other problems	28
Check for proper lubrication	29
	30



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RT & TM INSPECTION & LUBRICATION SERVICE LOG

Daily or 10 Hour Check List																																				
Line Item	Items	Inspection Code	July																																	
			Daily or 10 Hour Check List																																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
1	Air Cleaner (TM500E-2 Carrier and Superstructure)	4, 9, 12																																		
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																																		
16	Hourmeter (TM500E-2 Carrier and Superstructure)	3, 5, 19																																		
17	Hydraulic Oil Filter	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			July																																	



GROVE

RT & TM INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List	
Task to Perform	Code
Is item properly installed on machine	1
Check for cracked or broken glass	2
Check for proper working order	3
Check for proper service/level and fill/replace if needed	4
Check for proper reading while operating engine	5
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Check for proper operation while operating machine	7
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Check for cracks or leaks	9
Check for excessive wear	10
Check torque	11
Clean or replace as needed	12
Drain moisture	13
Change filter	14
Check for deterioration, damage or excessive wear	15
Daily or 10 Hour Check List	
Task to Perform	Code
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Check for proper inflation/pressure	21
Check for loose or damaged wiring	22
Check that clamps are tight and not corroded	23
Check complete path for any condition that could damage rope	24
Replace	25
Check for leaks at connection points	26
Drain and fill	27
Inspect for contaminants and other problems	28
Check for proper lubrication	29
	30



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RT & TM INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List

Task to Perform	Code	Task to Perform	Code
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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



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RT & TM INSPECTION & LUBRICATION SERVICE CODES

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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



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RT & TM INSPECTION & LUBRICATION SERVICE LOG

Items		Inspection Code	October																																
			Daily or 10 Hour Check List																																
Line Item	Items	Inspection Code	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
1	Air Cleaner (TM500E-2 Carrier and Superstructure)	4, 9, 12																																	
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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																																	
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24	Steps and Ladders	6, 15, 16																																	
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26	Transmission/Torque Converter	4																																	
27	Wire Rope	15, 20, 29																																	
Inspector's Initials:																																			
Daily or 10 Hour Check List			October																																



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
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Check for proper operation while operating machine		7	Check for loose or damaged wiring		22
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Check for cracks or leaks		9	Check complete path for any condition that could damage rope		24
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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



RT & TM INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List	
Task to Perform	Code
Is item properly installed on machine	1
Check for cracked or broken glass	2
Check for proper working order	3
Check for proper service/level and fill/replace if needed	4
Check for proper reading while operating engine	5
Check for excess dirt, grease, or foreign matter	6
Check for proper operation while operating machine	7
Check for proper adjustment	8
Check for cracks or leaks	9
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Check torque	11
Clean or replace as needed	12
Drain moisture	13
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Daily or 10 Hour Check List	
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Check complete path for any condition that could damage rope	24
Replace	25
Check for leaks at connection points	26
Drain and fill	27
Inspect for contaminants and other problems	28
Check for proper lubrication	29
	30

GROVE

RT & TM INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items	Inspection Code	December																																	
			Daily or 10 Hour Check List																																	
			Day of Inspection																																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
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9	Crankcase (TM500E-2 Carrier and Superstructure)	4, 6																																		
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15	Hook Block & Headache Ball Safety Latch	3, 9, 10																																		
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27	Wire Rope	15, 20, 29																																		
Inspector's Initials:																																				
Daily or 10 Hour Check List			December																																	



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



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



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



RT & TM INSPECTION & LUBRICATION SERVICE LOG

Monthly or 250 Hours Check List															
Line Item	Items	Inspection Code	Note	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1	Batteries (TMS500E-2 Carrier and Superstructure)	4													
2	Boom	16													
3	Boom Extension Stowage Ramp Wear Pads (TMS600E)	18													
4	Cable, Nose, Extension Sheaves	18	250 Hrs or 3 Months												
5	Clutch Throw-Out Bearing (TMS600E, TMS700E, TMS800E, TMS9000E)	18													
6	Cold Weather Starting Aid	1, 3, 9, 19													
7	Crankcase (TMS600E)	14, 27	Every 400 hours												
8	Crankcase (TMS500E-2 Superstructure)	14, 27	Every 250 hours												
9	Crankcase (RT880E, RT890E)	14, 27													
10	Derricking Cylinder Pivot Pin (TMS9000E)	18	Every 100 hours												
11	Extend and Retract Sheaves & Roller	18	250 Hrs or 3 Months												
12	Fire Extinguisher (TMS500E-2 Carrier and Superstructure)	1, 4													
13	Front Axle Hubs (TM Models)	4													
14	Front-Rear Axle Bowl (TM Models)	4													
15	Hook Block and/or Headache Ball	18	250 Hrs or 3 Months												
16	Hoist Cable Follower Arms (Not on TMS9000E)	18	250 Hrs or 3 Months												
17	Hose Clamps, Guards, Shields (TMS500E-2 Carrier and Superstructure)	1													
18	Hose Roller (RT890E & RT9130E)	18													
19	Hoses	6, 9, 15													
Page 1 of 2 Inspector's Initials: _____ Hourmeter Reading: _____															

Monthly or 250 Hours Check List



RT & TM INSPECTION & LUBRICATION SERVICE CODES

Monthly or 250 Hours Check List	
Task to Perform	Code
Is item properly installed on machine	1
Check for cracked or broken glass	2
Check for proper working order	3
Check for proper service/level and fill/replace if needed	4
Check for proper reading while operating engine	5
Check for excess dirt, grease, or foreign matter	6
Check for proper operation while operating machine	7
Check for proper adjustment	8
Check for cracks or leaks	9
Check for excessive wear	10
Check torque	11
Clean or replace as needed	12
Drain moisture	13
Change filter	14
Check for deterioration, damage or excessive wear	15
Monthly or 250 Hours Check List	
Task to Perform	Code
Check for cracked or broken structures and welds	16
Service as required by engine manufacturer	17
Lubricate	18
Check connectors and wiring for proper alignment and insulation	19
Check wire for damaged, frayed, or broken strands	20
Check for proper inflation/pressure	21
Check for loose or damaged wiring	22
Check that clamps are tight and not corroded	23
Check complete path for any condition that could damage rope	24
Replace	25
Check for leaks at connection points	26
Drain and fill	27
Inspect for contaminants and other problems	28
Check for proper lubrication	29
	30



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 (TM500E-2)	28																
21	Internal Side & Bottom Wear Pads (TM500E-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	Side 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



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)



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 (TM500E-2)	28																	
21	Internal Side & Bottom Wear Pads (TM500E-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	Side 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



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 LOG

Line Item	Items	Inspection Code	Interval Months (Or 500 hours, whichever comes first)	3 Months, 6 Months, 12 Months, or 500 Hour Check List (400 Hour if Noted)														
				Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec			
1	Axle (RT Models)	4	Three (3) Months															
2	Boom Mast Sheave (Not on RT9130E)	18	Twelve (12) Months															
3	Boom Upper Wear Pads (TMS9000E)	18	Six (6) Months															
4	Cab Pillow Block (RT880E, RT890E & RT9130E)	18	Three (3) Months															
5	Cab Tilt Cylinder (RT880E, RT890E & RT9130E)	18	Three (3) Months															
6	Cab Track Rollers and Walkway Slides (TMS600E, TMS9000E)	18	Six (6) Months															
7	Clutch Linkage (TMS600E, TMS700E, TMS800E, TMS9000E)	18	Three (3) Months															
8	Cooling System (RT9130E)	14	Three (3) Months															
9	Crane Structure	16	Three (3) Months															
10	Crankcase (RT530E-2, RT540E, RT700E, TMS600E, TMS700E, TMS800E, TMS9000E)	14, 27, 29	Six (6) Months															
11	Crankcase (RT600E, RT9130E)	14, 27	Three (3) Months															
12	Crankcase (TM500E-2 Carrier)	14, 27	6 Months or 15,000 miles															
13	Differential Breather (RT Models)	3	Three (3) Months															
14	Drive Train Slip Joints (RT Models)	18	Three (3) Months															
15	Driveline - Front Carrier Bearing (TMS600E)	18	3 Months or 10,000 miles															
16	Driveline - Intermediate (TMS600E)	18	3 Months or 10,000 miles															
17	Driveline Slip (TM Models)	18	10,000 miles															
18	Fuel Filter (RT Models but not RT600E, TM500E-2, TMS600E)	14	Six (6) Months															
Page 1 of 2				Inspector's Initials:														
Hourmeter Reading:																		

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



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)



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



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



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RT & TM INSPECTION & LUBRICATION SERVICE LOG

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

Line Item	Items	Inspection Code	Hours (or)		6, 12, 24, 36 Months or 1000, 2000, 3000, 4000 Hours															
			Months	Months	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 (TM500E-2)	18	1000	12 Months																
26	Steer Connecting Rod (TM500E-2)	18	1000																	
27	Swing Gearbox (RT Models)	9, 27	1000	6 Months																
28	Transmission (TM500E-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)	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	Turtable Gear Box	27	1000	12 Months																
36	Wire Rope	15, 18, 20	1000	12 Months																
37																				

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Inspector's Initials:

Hourmeter Reading:

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



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

Monthly - Storage Cranes Only



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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	Turntable	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																					
Inspector's Initials:																					
Hourmeter Reading:																					
Monthly - Storage Cranes Only																					



RT & TM INSPECTION & LUBRICATION SERVICE CODES

1000 Mile Check List		1000 Mile 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	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 for 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



