ROUGH TERRAIN CRANE INTRODUCTION

Inspection & Lubrication Manual

Purposes of this manual:

- 1) To serve as a guide when making required inspections & lubrications on your Manitowoc 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 Manitowoc Grove Crane.

<u>Note</u>: Federal regulations require that written, dated, and signed inspections records be maintained.

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

How to use this manual:

Signature Verification Record Page:

Each person to inspect and/or lubricate this Manitowoc Grove 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:

Signature Verification Record Service & Repair Record

Record problems and resolutions on these pages.

Manual Content:

Daily or 10 Hour Check List
Weekly or 50 Hour Check List
Monthly or 250 Hour Check List
3 Month, 6 Month, 12 Month, or 500 Hour Check List
6, 12, 24+ Month, or 1000, 2000, 4000 Hour Check List
1000 Mile Check List

Notes:

- 1) Before performing any inspection on the Manitowoc Grove Crane the inspector must have read the Safety section of the Operator's manual.
- 2) The same inspector who performed the initital 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 10 hour shift your crane is operated.
- 5) Ordering part number for additional copies of this manual is 9828100654.

Inspection & Lubrication Manual



RT INSPECTION & LUBRICATION SERVICE CODES

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



Daily or 10 Hour Check List

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2 Signal and Ru	inning Lights & Horn	2, 3																												1		
3 Back-up Alarr		7																												1		
4 Gauges and I	nstruments	3, 5, 7																												1		
5 Brakes (Swing	g, Foot & Parking)	3, 7																												1		
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7 Load Moment		7, 19																														
8 Antitwo-Block	(A2B) Elec. & Hyd.	7, 19																														
9 Brakes and A	r System (if equipped)	3, 7, 13																												1	Ш	
10 Tires		21, 10, 6																												1		
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Check for proper adjustment	8	Check that clamps are tight and not corroded	_
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	•
Check for excessive wear	10	Replace	
Check torque	11	Check for leaks at connection points	
Clean or replace	12	Drain and fill	
Drain moisture	13		
Change filter	14		
Check for deterioration, damage or excessive wear	15		



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Check for cracked or broken glass	2	Service as required by engine manufacturer	17
Check for proper working order	3	Lubricate	18
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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	12	Drain and fill	27
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30



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14 Wire Rope	20																												<u> </u>			
15 Hoists	1, 6, 7																															
16 Boom and Attachments	1, 6, 7																												l			
17 Crankcase	4, 6																												l			
18 Transmission/Torque Converter	4																															
19 Cooling System	4																															
20 Fuel/Water Separator	13																															
21 Air Cleaner	4, 9																															
22 Hook Block & Headache Ball Safety Latch	3, 9, 10																															
23 Lock-out Cylinder & Slew Potentiometer	7, 8																															
24																																
25																																
26																															一	
27																															一	
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Inspector's	s Initials:																															
Daily or 10 Hour Check List																											-	<mark>\u</mark> و	<mark>gus</mark>	t		



Task to Perform	Code	Task to Perform	Co
ls item properly installed on machine	1	Check for cracked or broken structures and welds	1
Check for cracked or broken glass	2	Service as required by engine manufacturer	1
Check for proper working order	3	Lubricate	1
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	2
Check for proper operation while operating machine	7	Check for loose or damaged wiring	2:
Check for proper adjustment	8	Check that clamps are tight and not corroded	2:
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	2
Check torque	11	Check for leaks at connection points	20
Clean or replace	12	Drain and fill	2
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		3(



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Items to be Inspected/Lubricated	Inspection Code															y of																
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1 Operator's Manual	1																															
2 Signal and Running Lights & Horn	2, 3																															
3 Back-up Alarm	7																															
4 Gauges and Instruments	3, 5, 7																															
5 Brakes (Swing, Foot & Parking)	3, 7																														l	
6 Boom Angle Indicator	7																														l	
7 Load Moment Indicator	7, 19																															
8 Antitwo-Block (A2B) Elec. & Hyd.	7, 19																													i		
9 Brakes and Air System (if equipped)	3, 7, 13																															
10 Tires	21, 10, 6																															
11 Hourmeter	3, 5, 19																															
12 Hydraulic Tank	4, 6																															
13 Hydraulic Oil Filter	4																															
14 Wire Rope	20																															
15 Hoists	1, 6, 7																															
16 Boom and Attachments	1, 6, 7																															
17 Crankcase	4, 6																															
18 Transmission/Torque Converter	4																															
19 Cooling System	4																															
20 Fuel/Water Separator	13																															
21 Air Cleaner	4, 9																															
22 Hook Block & Headache Ball Safety Latch	3, 9, 10																															
23 Lock-out Cylinder & Slew Potentiometer	7, 8																															
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Inspector'	s Initials:																															
Daily or 10 Hour Check List																											Se	pte	emk	er		



Task to Perform	Code	Task to Perform	Co
ls item properly installed on machine	1	Check for cracked or broken structures and welds	1
Check for cracked or broken glass	2	Service as required by engine manufacturer	1
Check for proper working order	3	Lubricate	1
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	2
Check for proper operation while operating machine	7	Check for loose or damaged wiring	2:
Check for proper adjustment	8	Check that clamps are tight and not corroded	2:
Check for cracks or leaks	9	Check complete path for any condition that could damage rope	24
Check for excessive wear	10	Replace	2
Check torque	11	Check for leaks at connection points	20
Clean or replace	12	Drain and fill	2
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		3(



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Items to be Inspected/Lubricated	Code														Da	y of	Ins	pec	tion													
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1 Operator's Manual	1																															
2 Signal and Running Lights & Horn	2, 3																												$\vdash \vdash$			
3 Back-up Alarm	7																												$\vdash \vdash$			
4 Gauges and Instruments	3, 5, 7																												\longrightarrow			
5 Brakes (Swing, Foot & Parking)	3, 7																												\longrightarrow			
6 Boom Angle Indicator	7																												\longrightarrow		—	
7 Load Moment Indicator	7, 19																												ш			
8 Antitwo-Block (A2B) Elec. & Hyd.	7, 19																												ш			
9 Brakes and Air System (if equipped)	3, 7, 13																												\sqcup			
10 Tires	21, 10, 6																												ш			
11 Hourmeter	3, 5, 19																															
12 Hydraulic Tank	4, 6																												Ш			
13 Hydraulic Oil Filter	4																															
14 Wire Rope	20																												l			
15 Hoists	1, 6, 7																												i			
16 Boom and Attachments	1, 6, 7																															
17 Crankcase	4, 6																												i			
18 Transmission/Torque Converter	4																															
19 Cooling System	4																															
20 Fuel/Water Separator	13																												i			
21 Air Cleaner	4, 9																															
22 Hook Block & Headache Ball Safety Latch	3, 9, 10																															
23 Lock-out Cylinder & Slew Potentiometer	7, 8																															
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25																																
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Inspector's	s Initials:																															
Daily or 10 Hour Check List																											C)cto	obe	r		



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



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Items to be Inspected/Lubricated	Inspection Code						<u> </u>								Da	y of	Insi	pect	tion					<u> </u>	<u> </u>				<u> </u>	-		<u> </u>
Lin	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 Operator's Manual	1																															
2 Signal and Running Lights & Horn	2, 3																															
3 Back-up Alarm	7																															
4 Gauges and Instruments	3, 5, 7																															
5 Brakes (Swing, Foot & Parking)	3, 7																															
6 Boom Angle Indicator	7																															
7 Load Moment Indicator	7, 19																															
8 Antitwo-Block (A2B) Elec. & Hyd.	7, 19																															
9 Brakes and Air System (if equipped)	3, 7, 13																															
10 Tires	21, 10, 6																															
11 Hourmeter	3, 5, 19																															
12 Hydraulic Tank	4, 6																															
13 Hydraulic Oil Filter	4																															
14 Wire Rope	20																															
15 Hoists	1, 6, 7																															
16 Boom and Attachments	1, 6, 7																															
17 Crankcase	4, 6																															
18 Transmission/Torque Converter	4																															
19 Cooling System	4																															
20 Fuel/Water Separator	13																															
21 Air Cleaner	4, 9																															
22 Hook Block & Headache Ball Safety Latch	3, 9, 10																															
23 Lock-out Cylinder & Slew Potentiometer	7, 8																															
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26																																
27																																
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Inspector's	s Initials:																															
Daily or 10 Hour Check List																											No	ve	<mark>mb</mark>	er		



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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 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	12	Drain and fill	27
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30



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Items to be Inspected/Lubricated	Inspection Code														Da	y of	Ins	pect	tion													
		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 Operator's Manual	1																												\longrightarrow			
2 Signal and Running Lights & Horn	2, 3																												\longrightarrow			
3 Back-up Alarm	7																															
4 Gauges and Instruments	3, 5, 7																												\longrightarrow			
5 Brakes (Swing, Foot & Parking)	3, 7																												\longrightarrow		—	
6 Boom Angle Indicator	7																												ш			
7 Load Moment Indicator	7, 19																												\square			
8 Antitwo-Block (A2B) Elec. & Hyd.	7, 19																												Ш			
9 Brakes and Air System (if equipped)	3, 7, 13																															
10 Tires	21, 10, 6																															
11 Hourmeter	3, 5, 19																															
12 Hydraulic Tank	4, 6																												l			
13 Hydraulic Oil Filter	4																												l			
14 Wire Rope	20																												i			
15 Hoists	1, 6, 7																												i			
16 Boom and Attachments	1, 6, 7																												i			
17 Crankcase	4, 6																															
18 Transmission/Torque Converter	4																															
19 Cooling System	4																															
20 Fuel/Water Separator	13																												i			
21 Air Cleaner	4, 9																															
22 Hook Block & Headache Ball Safety Latch	3, 9, 10																															
23 Lock-out Cylinder & Slew Potentiometer	7, 8																															
24																																
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Inspector's	s Initials:																															
Daily or 10 Hour Check List																											De	ce	mb	er		



		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	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	12	Drain and fill	27
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30
Weekly or 50 Hours Check List	,	•	



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Items to be Inspected/Lubricated	Code			anua					brua					/larc					۱pril					ay				lune		
1 Turntable Gearbox	4	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1 :	2 3	3 4	5	1	2	3	4	5 W
2 Turntable Gearbox (1st 250 hours)	27																					+							十	-
3 Outrigger Beans, Tubes and Barrels	16, 18																				-				1				_	\dashv
4 Sheaves	7, 10,																												_	
5 Counterwieght	11, 16																												寸	
6 Coolant Strainer (1st 100 hours)	12															T			T	\neg					1	T		T	寸	
7 Belts	8, 10															7			7	寸								T	丁	
8 Pumps & Motors	9																													
9 Wheel Lugs	11																													
10 Transmission Filter (1st 50 & 100 hours)	14																													
11 Boom Upper & Lower Wear Pads	18																													
12 Wiring	22																													
13 Battery and Cable Clamps	23																													
14 Hoists	4, 9																													
15 Outrigger Float Pads	1, 16																													
16 Hydraulic Hoses	26																													
17 Air Compressor Oil Level	4, 8																													
18																														
19																														
20																														
21																														
22																														
Inspector'	s Initials:																													
Hourmeter I	Reading:																													
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	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	12	Drain and fill	27
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	or proper service/level or proper reading while operating engine or excess dirt, grease, or foreign matter or proper operation while operating machine or proper adjustment or cracks or leaks or excessive wear or excessive wear or que or replace e filter Check connectors and Check wire for damag Check for proper inflat Check for loose or dar Check that clamps are Check complete path Replace Check for leaks at con Drain and fill		30



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E	Inspection																				We	ekl	у о	or 5	0 F	lou	rs (Che	ck L	ist
Items to be Inspected/Lubricated	Code	1	2	July 3		5	1	A 2	ugu 3		5	1		nber 4		1		ctob		5		Vov		er 4	5		Dece 2 :		r 5	Wk
1 Turntable Gearbox	4	Ė			i i		•	_				i i				•	_										_	-	Ť	· · · ·
2 Turntable Gearbox (1st 250 hours)	27																										<u> </u>		+	1
3 Outrigger Beans, Tubes and Barrels	16, 18																										<u> </u>		+	1
4 Sheaves	7, 10,																											1	1	1
5 Counterwieght	11, 16																				\dashv	\dashv		寸		1			\top	
6 Coolant Strainer (1st 100 hours)	12																				\dashv	\dashv		寸		1			\top	
7 Belts	8, 10																		1		1	1		寸		1			1	
8 Pumps & Motors	9																											1	1	•
9 Wheel Lugs	11																		1		+	1		寸		1			1	
10 Transmission Filter (1st 50 & 100 hours)	14																											1	1	•
11 Boom Upper & Lower Wear Pads	18																										<u> </u>		+	•
12 Wiring	22																											1	1	•
13 Battery and Cable Clamps	23																											1	1	1
14 Hoists	4, 9																										<u> </u>		+	•
15 Outrigger Float Pads	1, 16																													•
16 Hydraulic Hoses	26																											1	1	•
17 Air Compressor Oil Level	4, 8																										<u> </u>		+	•
18	,																										<u> </u>		+	•
19																												1	1	1
20																											<u> </u>		+	•
21																												1	1	1
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Inspector's	s Initials:																	•				Ì								
Hourmeter I	Reading:																													
Weekly or 50 Hours Check List																														



	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	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	12	Drain and fill	27
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30



RT INSPECTION & LUBRICATION SERVICE LOG **Monthly or 250 Hours Check List** Line Item Inspection Items to be Inspected/Lubricated Code February March May June January April Hook Block 18 Side Wear Pads 18 Cable Sheaves 18 Pivot Shaft 18 Extension Sheave & Roller 18 Nose Sheave 18 Cable Follower Arms 18 Swingaway Hanger Wear Pads 18 9 Headache Ball 18 10 Hose Roller (RT890E & RT9130E) 18 11 Crankcase (RT880E & RT890E) 14, 27 12 Fire Extingulsher 13 Cold Weather Starting Aid 1, 3, 9, 19 14 Batteries 15 Valves 9.16 16 Cylinders 9, 16 17 Boom 16 18 Hoses 6, 9, 15 19 Hose Clamps, Guards, Shields Jib & Lattice Extension Pins (if equipped) 1, 15 Turntable Bolts (1st 300 Hours) 11 Radiator 16 Inspector's Initials: Hourmeter Reading: **Monthly or 250 Hours Check List**



	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	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	12	Drain and fill	27
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30



RT INSPECTION & LUBRICATION SERVICE LOG **Monthly or 250 Hours Check List** Line Item Inspection Items to be Inspected/Lubricated Code August September October November December July Hook Block 18 Side Wear Pads 18 Cable Sheaves 18 Pivot Shaft 18 Extension Sheave & Roller 18 Nose Sheave 18 Cable Follower Arms 18 Swingaway Hanger Wear Pads 18 9 Headache Ball 18 10 Hose Roller (RT890E & RT9130E) 18 11 Crankcase (RT880E & RT890E) 14, 27 12 Fire Extingulsher 13 Cold Weather Starting Aid 1, 3, 9, 19 14 Batteries 15 Valves 9.16 16 Cylinders 9, 16 17 Boom 16 18 Hoses 6, 9, 15 19 Hose Clamps, Guards, Shields Jib & Lattice Extension Pins (if equipped) 1, 15 Turntable Bolts (1st 300 Hours) 11 Radiator 16 Inspector's Initials: Hourmeter Reading: **Monthly or 250 Hours Check List**



RT INSPECTION & LUBRICATION SERVICE CODES

3 Months,	6 Months,	12 Months	, or 500 Hour	Check List
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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 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	12	Drain and fill	27
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30
3 Months, 6 Months, 12 Months, or 500 Hour Check	l ist		1

B Months, 6 Months, 12 Months, or 500 Hour Check List



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Ę.	Inspection				3 M	onths	, 6 Mo	nths,	12 Mo	nths,	or 500	Hour	Chec	k List
Items to be Inspected/Lubricated	Code	Interval Months (Or 500 hours, whichever comes first)	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1 Steering & Suspension Pivot & King Pins	18	Three (3) Months												
2 Axle	4	Three (3) Months												
3 Crankcase (RT600E, RT9130E)	14, 27	Three (3) Months												
4 Fuel Filter (RT600E)	14	Three (3) Months												
5 Drive Train Slip Joints	18	Three (3) Months												
6 Transmission Filter	14	Three (3) Months												
7 Cooling System (RT9130E)	14	Three (3) Months												
8 Lift Cylinder Pins (Not on RT880E & RT890E)	18	Three (3) Months												
9 Cab Tilt Cylinder (RT880E, RT890E & RT9130E)	18	Three (3) Months												
10 Cab Pillow Block (RT880E, RT890E & RT9130E)	18	Three (3) Months												
11 Mounting Bolts (Trans, Eng, Hoist, Gearbox, Axle)	11	Three (3) Months												
12 Turntable Bolts	11	Three (3) Months												
13 Muffler	9	Three (3) Months												
14 Boom	8	Three (3) Months												
15 Crane Structure	16	Three (3) Months												
16 Differential Breather	3	Three (3) Months												
17 Crankcase (RT530E-2, RT540E & RT700E)	14, 27	Six (6) Months												
18 Fuel Filter (Not RT600E)	14	Six (6) Months												
19 Strainer (RT880E, RT890E, & RT9130E)	25	Six (6) Months												
20 Turntable Bearing & Drive Pinion	18	Six (6) Months												
21 Turntable Gear Box	27	Twelve (12) Months												
22 Boom Mast Sheave (Not on RT9130E)	18	Twelve (12) Months												
23 Hose Reel	18	Six (6) Months												
	Boom Mast Sheave (Not on RT9130E) 18 Twelve (12) Mo													
		Hourmeter Reading:												
3 Months, 6 Months, 12 Months,	or 500 H	our Check List												



RT INSPECTION & LUBRICATION SERVICE CODES 6 Months, 12 Months, 24+ Months or 1000 Hours, 2000 Hours, 4000 Hours Task to Perform Task to Perform Code Code Is item properly installed on machine Check for cracked or broken structures and welds 16 Check for cracked or broken glass Service as required by engine manufacturer 2 17 Check for proper working order 3 Lubricate 18 Check for proper service/level 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 Check for proper inflation/pressure 6 21 Check for proper operation while operating machine 7 Check for loose or damaged wiring 22 Check for proper adjustment Check that clamps are tight and not corroded 8 23 Check for cracks or leaks 9 Check complete path for any condition that could damage rope 24 10 25 Check for excessive wear Replace 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

6 Months, 12 Months, 24+ Months or 1000 Hours, 2000 Hours, 4000 Hours



Check for deterioration, damage or excessive wear

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RT INSF	PECT	ΓΙΟΝ	& LU	BR	ICA	TIC	NC	SE	RV	ICI	ΞL	OG			
в	Inspection		6 M	onths,	12 M	onths,	24+ N	lonths	s or 10	000 Hc	urs, 2	000 H	ours,	4000 H	lours
Items to be Inspected/Lubricated	Code	Hours	(or) Months	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1 Transmission/Torque Converter	9, 27	1000	6 Months												
2 Swing Gearbox	9, 27	1000	6 Months												
3 Boom Wear Pads	10, 12	1000	6 Months												
4 Axle Differentials	9	1000	6 Months												
5 Axle Planetary Hubs - Front	3	1000	6 Months												
6 Axle Planetary Hubs - Rear	3	1000	6 Months												
7 Brake Lines	3, 10	1000	6 Months												
8 Hoists	9, 27	1000	12 Months												
9 Coolant Strainer	12	2000	12 Months												
10 Cooling System (RT: 530E-2, 540E, 600E, 700E)	9, 27	2000	12 Months												
11 Retarder (RT9130E)	18	2000	12 Months												
12 Axle Differentials	9, 27	4000	24 Months												
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
		Inspec	tor's Initials:												
		Hourme	ter Reading:												
6 Months, 12 Months, 24+ Month	s or 1000	Hours,	2000 Hours	, 4000	Hours										



		1000 Mile C	heck 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 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			



RT INSF	PECT	Π	0	N	8			IJ	В	R	IC	;_Δ	T	10	IC	V	S	E	R	V	IC	E		L	0	G						
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Items to be Inspected	Inspection Code															Tho	usa	nds									- 11		<u> </u>	J		
Lin	Code	1	2	3	4	5	6	7	8	9	10	11	12	13		15				19	20	21	22	23	24	25	26	27	28	29	30	31
1 Wheel Lugs	11																															
2 Tie Rod Balljoints	10																															
3 Steering Knuckles	10																															
4 Drag Link U-Joint	10																															
5 Drag Link Ends	10																															
6 Clutch Release Bearing	8																															
7 Gearshift Control	7, 8																															
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1000 Mile Check List																																



RT SIGNATURE VERIFICATION RECORD		
	Authorized Personnel Only	
Print Name Clearly	Sign Name	Initials to use
		+
Authorized Personnel Only	<u> </u>	1













