

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.

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


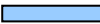




This manual is not intended to replace any preoperational checks required by an owner or local or state safety board.

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:
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 
- Signature Verification Record
- Service & Repair Record

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 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 10 hour shift your crane is operated.
- 5) Ordering part number for additional copies of this manual is 9828100654.

RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour 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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	January																														
			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
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																															
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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																																	
29																																	
<i>Inspector's Initials:</i>																																	

Daily or 10 Hour Check List **January**



RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List

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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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	February 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
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Daily or 10 Hour Check ListFebruary

RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List

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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	March 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
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Daily or 10 Hour Check List

March

RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour 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
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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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	April 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
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Daily or 10 Hour Check List

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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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	May 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
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Daily or 10 Hour Check List **May**



RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List

Daily or 10 Hour 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
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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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	June 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
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Daily or 10 Hour Check List

June

RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour 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
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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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	July 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
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Daily or 10 Hour Check List **July**



RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour 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
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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	12	Drain and fill	27
Drain moisture	13		28
Change filter	14		29
Check for deterioration, damage or excessive wear	15		30

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	August 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
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Daily or 10 Hour Check List	August
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RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour Check List

Task to Perform	Code	Task to Perform	Code
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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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	September 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
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																												
24																														
25																														
26																														
27																														
29																														
<i>Inspector's Initials:</i>																														

RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour 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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	October 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
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																												
24																														
25																														
26																														
27																														
29																														
<i>Inspector's Initials:</i>																														

Daily or 10 Hour Check List **October**

RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour 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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	November 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
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																												
24																														
25																														
26																														
27																														
29																														
<i>Inspector's Initials:</i>																														

Daily or 10 Hour Check List **November**

RT INSPECTION & LUBRICATION SERVICE CODES

Daily or 10 Hour 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

Daily or 10 Hour Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	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
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																												
24																														
25																														
26																														
27																														
29																														
<i>Inspector's Initials:</i>																														
Daily or 10 Hour Check List			December																											

RT 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	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

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	Weekly or 50 Hours Check List																														
			January					February					March					April					May					June					Wk
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	
1	Turntable Gearbox	4																															
2	Turntable Gearbox (1st 250 hours)	27																															
3	Outrigger Beans, Tubes and Barrels	16, 18																															
4	Sheaves	7, 10,																															
5	Counterweight	11, 16																															
6	Coolant Strainer (1st 100 hours)	12																															
7	Belts	8, 10																															
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 Reading:

Weekly or 50 Hours Check List

RT 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	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

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	Weekly or 50 Hours Check List																																
			July					August					September					October					November					December							
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5			
1	Turntable Gearbox	4																																	
2	Turntable Gearbox (1st 250 hours)	27																																	
3	Outrigger Beans, Tubes and Barrels	16, 18																																	
4	Sheaves	7, 10,																																	
5	Counterweight	11, 16																																	
6	Coolant Strainer (1st 100 hours)	12																																	
7	Belts	8, 10																																	
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 Reading:																																			

Weekly or 50 Hours Check List

RT 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	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

Monthly or 250 Hours Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	Monthly or 250 Hours Check List					
			January	February	March	April	May	June
1	Hook Block	18						
2	Side Wear Pads	18						
3	Cable Sheaves	18						
4	Pivot Shaft	18						
5	Extension Sheave & Roller	18						
6	Nose Sheave	18						
7	Cable Follower Arms	18						
8	Swingaway Hanger Wear Pads	18						
9	Headache Ball	18						
10	Hose Roller (RT890E & RT9130E)	18						
11	Crankcase (RT880E & RT890E)	14, 27						
12	Fire Extingulsher	1						
13	Cold Weather Starting Aid	1, 3, 9, 19						
14	Batteries	4						
15	Valves	9, 16						
16	Cylinders	9, 16						
17	Boom	16						
18	Hoses	6, 9, 15						
19	Hose Clamps, Guards, Shields	1						
20	Jib & Lattice Extension Pins (if equipped)	1, 15						
21	Turntable Bolts (1st 300 Hours)	11						
22	Radiator	16						
<i>Inspector's Initials:</i>								
<i>Hourmeter Reading:</i>								

Monthly or 250 Hours Check List

RT 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	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

Monthly or 250 Hours Check List

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	Monthly or 250 Hours Check List					
			July	August	September	October	November	December
1	Hook Block	18						
2	Side Wear Pads	18						
3	Cable Sheaves	18						
4	Pivot Shaft	18						
5	Extension Sheave & Roller	18						
6	Nose Sheave	18						
7	Cable Follower Arms	18						
8	Swingaway Hanger Wear Pads	18						
9	Headache Ball	18						
10	Hose Roller (RT890E & RT9130E)	18						
11	Crankcase (RT880E & RT890E)	14, 27						
12	Fire Extingulsher	1						
13	Cold Weather Starting Aid	1, 3, 9, 19						
14	Batteries	4						
15	Valves	9, 16						
16	Cylinders	9, 16						
17	Boom	16						
18	Hoses	6, 9, 15						
19	Hose Clamps, Guards, Shields	1						
20	Jib & Lattice Extension Pins (if equipped)	1, 15						
21	Turntable Bolts (1st 300 Hours)	11						
22	Radiator	16						
<i>Inspector's Initials:</i>								
<i>Hourmeter Reading:</i>								

Monthly or 250 Hours Check List

RT INSPECTION & LUBRICATION SERVICE CODES

3 Months, 6 Months, 12 Months, or 500 Hour 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

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

RT INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected/Lubricated	Inspection Code	3 Months, 6 Months, 12 Months, or 500 Hour Check List													
			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													
<i>Inspector's Initials:</i>																
<i>Hourmeter Reading:</i>																

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

RT INSPECTION & LUBRICATION SERVICE CODES

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

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

RT INSPECTION & LUBRICATION SERVICE LOG

6 Months, 12 Months, 24+ Months or 1000 Hours, 2000 Hours, 4000 Hours																
Line Item	Items to be Inspected/Lubricated	Inspection Code			Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
			Hours	(or) Months												
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																
<i>Inspector's Initials:</i>																
<i>Hourmeter Reading:</i>																

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

RT INSPECTION & LUBRICATION SERVICE CODES

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 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 INSPECTION & LUBRICATION SERVICE LOG

Line Item	Items to be Inspected	Inspection Code	1000 Mile Check List																													
			Thousands																													
			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
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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<i>Mileage:</i>																																
<i>Inspector's Initials:</i>																																

1000 Mile Check List

RT SIGNATURE VERIFICATION RECORD

Authorized Personnel Only

<u>Print Name Clearly</u>	<u>Sign Name</u>	<u>Initials to use</u>

Authorized Personnel Only

RT SERVICE & REPAIR RECORD

Authorized Personnel Only

<u>Description of Problem Found</u>	<u>Page</u>	<u>Line</u>	<u>Initials</u>	<u>Date</u>	<u>Service, Adjustments, or Repairs Performed</u>	<u>Initials</u>	<u>Date</u>

Authorized Personnel Only

RT SERVICE & REPAIR RECORD

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<u>Description of Problem Found</u>	<u>Page</u>	<u>Line</u>	<u>Initials</u>	<u>Date</u>	<u>Service, Adjustments, or Repairs Performed</u>	<u>Initials</u>	<u>Date</u>

Authorized Personnel Only

GROVE

RT SERVICE & REPAIR RECORD

Authorized Personnel Only

<u>Description of Problem Found</u>	<u>Page</u>	<u>Line</u>	<u>Initials</u>	<u>Date</u>	<u>Service, Adjustments, or Repairs Performed</u>	<u>Initials</u>	<u>Date</u>

Authorized Personnel Only



RT SERVICE & REPAIR RECORD

Authorized Personnel Only

<u>Description of Problem Found</u>	<u>Page</u>	<u>Line</u>	<u>Initials</u>	<u>Date</u>	<u>Service, Adjustments, or Repairs Performed</u>	<u>Initials</u>	<u>Date</u>

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RT SERVICE & REPAIR RECORD

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