

ROTARY SCREW AIR COMPRESSOR MAINTENANCE CHART

Rig #	120	Oil Type	POA-46		
MODEL#	50DGH-TE	SERIAL#	10J022	ASSET#	
HRS	22580	W/O#		DATE	8/21/2014
COMPANY	UNIT DRILLING	TECHNICIAN	RANDALL RAINS		

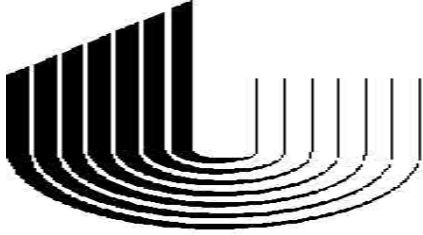
Description of work and parts used

NO	FLUSHED OIL SYSTEM
YES	CHANGED OIL
YES	CHANGED OIL FILTER
YES	CHANGED AIR FILTER
YES	CHANGED SEPERATOR
YES	CLEANED RADIATOR
NO	ADDED NEW OIL SAMPLE VALVE

EVERYTHING LOOKED GOOD

ROTARY SCREW AIR COMPRESSOR MAINTENANCE CHART

Rig #	120	Oil Type	POA-46
MODEL#	50DGH-TE	SERIAL#	10J021
HRS	22671	W/O#	DATE
COMPANY	UNIT DRILLING	TECHNICIAN	RANDALL RAINS
Description of work and parts used			
NO	FLUSHED OIL SYSTEM		
YES	CHANGED OIL		
YES	CHANGED OIL FILTER		
YES	CHANGED AIR FILTER		
YES	CHANGED SEPERATOR		
YES	CLEANED RADIATOR		
NO	ADDED NEW OIL SAMPLE VALVE		
EVERYTHING LOOKED GOOD			



RIG 120

Engine Inspection

NAME josh broken arrow

Work Order No. _____

JOB TITLE mechanic

DATE MAINTENANCE STARTED: 9/22/2016

COMPLETED 9/22/2016

EQUIPMENT DESCRIPTION: gensets

SERIAL NUMBER: _____

Travel Time to Rig _____ FROM: HOME SHOP

Time from Rig _____ FROM: HOME SHOP

Time at Rig: _____

ASSET # :

#1 Engine 22-1471

#1 Gen. 24-959

#2 Engine 22-1470

#2 Gen. 24-958

#3 Engine 22-1469

#3 Gen. 24-957

Other _____ engine

Asset # _____ Position

_____ gen

Asset # _____ Position

Other _____ engine

Asset # _____ Position

_____ gen

Asset # _____ Position

Other _____ engine

Asset # _____ Position

_____ gen

Asset # _____ Position

Other _____ engine

Asset # _____ Position

_____ gen

Asset # _____ Position

ACTON ITEMS

Scheduled Engine Inspections

Rig: 120

Antifreeze: Red Green

Date: 9/22/2016

Freeze point: _____

Engine Position: 1

If antifreeze is green test the NA-Cool level

Make: cat

Model: 3512c

Serial Number: lla2427

For 3512's: Radiator pass-48

Asset Number: 22-1471

Hours: 18940

Aftercooler pass-50

- Tighten pan bolts on D-379, 398, 399.
- Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
- Clean water passages on water cooled turbos (one time only).
- Run overhead valvetrain.
- Grease fan hub bearings and idler bearings.
- Inspect and clean radiators. Note: Wash in oppisite direction of air flow. (You should be able to see clearly through the radiators fins.)
- Test shutdown system and install new belts.
- Check and clean auxiliary oil filter.
- Make sure crank case filters are being serviced (on 3508,3512).

Record belt #'s, radiator fan brg., idler brg., shaft size, and pulley sizes.

Generator position: 1 Torque converter _____

Make: kato Oiler chain _____

Model: aa27673013 Clutch size _____

Asset Number: 24-959 Hrs since last P.M. _____

KW: 1204 RPM: _____
2-BRG

Review service procedures for engines with rig personell.

- Grease and inspect for wear.
- Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!,
(3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

everything looked good

Scheduled Engine Inspections

Rig: 120

Antifreeze: Red Green

Freeze point: _____

Date: 9/22/2016

If antifreeze is green test the NA-Cool level

Engine Position: 2

Make: cat

Model: 3512c

Serial Number: lla2441

Asset Number: 22-1470

Hours: 19088

For 3512's: Radiator pass-46

Aftercooler pass-48

- Tighten pan bolts on D-379, 398, 399.
- Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
- Clean water passages on water cooled turbos (one time only).
- Run overhead valvetrain.
- Grease fan hub bearings and idler bearings.
- Inspect and clean radiators. Note: Wash in oppisite direction of air flow. (You should be able to see clearly through the radiators fins.)
- Test shutdown system and install new belts.
- Check and clean auxiliary oil filter.
- Make sure crank case filters are being serviced (on 3508,3512).

Record belt #'s, radiator fan brg., idler brg., shaft size, and pulley sizes.

Generator position: 2 Torque converter _____

Make: kato Oiler chain _____

Model: aa27673013 Clutch size _____

Asset Number: 24-958 Hrs since last P.M. _____

KW: 1204 RPM: _____
2-BRG

Review service procedures for engines with rig personell.

- Grease and inspect for wear.
- Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!,
(3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

Replaced fanshaft and bearings, removed and welded up expansion joint running to muffler, everything else looked good

Scheduled Engine Inspections

Rig: 120

Antifreeze: Red Green

Freeze point: _____

Date: 9/22/2016

If antifreeze is green test the NA-Cool level

Engine Position: 3

Make: cat

Model: 3512c

Serial Number: lla2423

Asset Number: 22-1469

Hours: 19023

For 3512's: Radiator pass-48

Aftercooler pass-50

- Tighten pan bolts on D-379, 398, 399.
- Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
- Clean water passages on water cooled turbos (one time only).
- Run overhead valvetrain.
- Grease fan hub bearings and idler bearings.
- Inspect and clean radiators. Note: Wash in oppisite direction of air flow. (You should be able to see clearly through the radiators fins.)
- Test shutdown system and install new belts.
- Check and clean auxiliary oil filter.
- Make sure crank case filters are being serviced (on 3508,3512).

Record belt #'s, radiator fan brg., idler brg., shaft size, and pulley sizes.

Generator position: 3 Torque converter _____

Make: kato Oiler chain _____

Model: aa27673013 Clutch size _____

Asset Number: 24-957 Hrs since last P.M. _____

KW: 1204 RPM: _____
2-BRG

Review service procedures for engines with rig personell.

- Grease and inspect for wear.
- Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!,
(3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

removed expansion joint and welded, everything looked good

Scheduled Engine Inspections

Rig: 120

Antifreeze: Red Green

Freeze point: _____

Date: 9/22/2016

If antifreeze is green test the NA-Cool level

Engine Position: _____

Make: _____

Model: _____

For 3512's: Radiator _____

Serial Number: _____

Asset Number: _____

Aftercooler _____

Hours: _____

- Tighten pan bolts on D-379, 398, 399.
- Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
- Clean water passages on water cooled turbos (one time only).
- Run overhead valvetrain.
- Grease fan hub bearings and idler bearings.
- Inspect and clean radiators. Note: Wash in oppisite direction of air flow. (You should be able to see clearly through the radiators fins.)
- Test shutdown system and install new belts.
- Check and clean auxiliary oil filter.
- Make sure crank case filters are being serviced (on 3508,3512).

Record belt #'s, radiator fan brg., idler brg., shaft size, and pulley sizes.

Generator position: _____ Torque converter _____

Make: _____ Oiler chain _____

Model: _____ Clutch size _____

Asset Number: _____ Hrs since last P.M. _____

KW: _____ RPM: _____
2-BRG

Review service procedures for engines with rig personell.

- Grease and inspect for wear.
- Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!,
(3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

Scheduled Engine Inspections

Rig: 120

Antifreeze: Red Green

Freeze point: _____

Date: 9/22/2016

If antifreeze is green test the NA-Cool level

Engine Position: _____

Make: _____

Model: _____

For 3512's: Radiator _____

Serial Number: _____

Asset Number: _____

Aftercooler _____

Hours: _____

- Tighten pan bolts on D-379, 398, 399.
- Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
- Clean water passages on water cooled turbos (one time only).
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Record belt #'s, radiator fan brg., idler brg., shaft size, and pulley sizes.

Generator position: _____ Torque converter _____

Make: _____ Oiler chain _____

Model: _____ Clutch size _____

Asset Number: _____ Hrs since last P.M. _____

KW: _____ RPM: _____

2-BRG

Review service procedures for engines with rig personell.

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(3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

Scheduled Engine Inspections

Rig: 120

Antifreeze: Red Green

Freeze point: _____

Date: 9/22/2016

If antifreeze is green test the NA-Cool level

Engine Position: _____

Make: _____

Model: _____

For 3512's: Radiator _____

Serial Number: _____

Asset Number: _____

Aftercooler _____

Hours: _____

- Tighten pan bolts on D-379, 398, 399.
- Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
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Record belt #'s, radiator fan brg., idler brg., shaft size, and pulley sizes.

Generator position: _____ Torque converter _____

Make: _____ Oiler chain _____

Model: _____ Clutch size _____

Asset Number: _____ Hrs since last P.M. _____

KW: _____ RPM: _____
2-BRG

Review service procedures for engines with rig personell.

- Grease and inspect for wear.
- Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!,
(3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

Scheduled Engine Inspections

Rig: 120

Antifreeze: Red Green

Freeze point: _____

Date: 9/22/2016

If antifreeze is green test the NA-Cool level

Engine Position: _____

Make: _____

Model: _____ For 3512's: Radiator _____

Serial Number: _____

Asset Number: _____ Aftercooler _____

Hours: _____

- Tighten pan bolts on D-379, 398, 399.
- Ensure D-3508 and D-3512 individual gauge panels has been silicone to prevent water entry.
- Clean water passages on water cooled turbos (one time only).
- Run overhead valvetrain.
- Grease fan hub bearings and idler bearings.
- Inspect and clean radiators. Note: Wash in oppisite direction of air flow. (You should be able to see clearly through the radiators fins.)
- Test shutdown system and install new belts.
- Check and clean auxiliary oil filter.
- Make sure crank case filters are being serviced (on 3508,3512).

Record belt #'s, radiator fan brg., idler brg., shaft size, and pulley sizes.

Generator position: _____ Torque converter _____

Make: _____ Oiler chain _____

Model: _____ Clutch size _____

Asset Number: _____ Hrs since last P.M. _____

KW: _____ RPM: _____
2-BRG

Review service procedures for engines with rig personell.

- Grease and inspect for wear.
- Clean generator and blow out if necessary.

Check and Grease Drive Couplings, Plug and Remove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!,
(3)7L-5589 Rubber, (1) 9H846 O-Ring, (3) Tubes 5N5561 Compound Rubber Coupling,

Comments:

Individual Pump Inspections

Company/Division:		Asset # 38-319			
Rig:					
Pump#: 1					
Field Inspection Report -		Make:		Model:	
Recommended Running Clearances		Inches			
		Min.	Max.		General
Crosshead to slide - Left		.020	.045	0.028	Check all oil lines <input checked="" type="checkbox"/>
Crosshead to slide - Center		.020	.045	0.028	Check all tied Bolts <input checked="" type="checkbox"/>
Crosshead to slide - Right		.020	.045	0.030	Drain & check Cleanouts <input checked="" type="checkbox"/>
Main Bearing - Left		.005	.020	0.010	Check and clean, gear end with diesel if needed <input type="checkbox"/>
Main Bearing - Right		.005	.020	0.010	
Pinion Shaft Bearing - Left		.002	.015	0.007	Pony Rod Alignment <input checked="" type="checkbox"/>
Pinion Shaft Bearing - Right		.002	.015	0.007	Check pony rods for cracks and wear (replace if necessary) <input checked="" type="checkbox"/>
Crosshead Pin Bearing - Left		.002	.005	0.002	
Crosshead Pin Bearing - Center		.002	.005	0.002	Check piston rods for cracks and wear (replace if necessary) <input checked="" type="checkbox"/>
Crosshead Pin Bearing - Right		.002	.005	0.002	
Connecting Rod to Eccentric Bearing - LH		.002	.020	0.005	Check clamps for wear (replace if necessary) <input checked="" type="checkbox"/>
Connecting Rod to Eccentric Bearing - CTN		.002	.020	0.006	
Connecting Rod to Eccentric Bearing - RH		.002	.020	0.005	Check all bearings w/ mirror for pitting and flaking <input checked="" type="checkbox"/>
Oil Pump Pinion to Main Gear - Backlash		.010	.025	0.015	
Pinion Shaft to Main Gear - Backlash		.010	.050	0.030	Check all oil pump screens <input checked="" type="checkbox"/>
Bull Gear Wear				good	Check pillow block bearings on independent pump <input checked="" type="checkbox"/>
Pinion Gear Wear				good	
Extension Rods				good	On inspection replace pony rod seals (Regardless if the rig says they have already been changed seals still need to be checked) replace gaskets if need do not use silicone unless need to fill a void. (do not use to excess because it gets into gear end) <input checked="" type="checkbox"/>
Comments:					
National		Gardner Denver		Continental Emsco	
Check troughs	<input type="checkbox"/>	Oil pressure and Gauge	<input type="checkbox"/>	Oil pressure and Gauge	<input checked="" type="checkbox"/>
Check crosshead's for cracks at pony rod clamp	<input type="checkbox"/>	Oil Filter	<input type="checkbox"/>	Check pony rod wiper if equipped if not equipped with wipers get parts to correct	<input checked="" type="checkbox"/>
		Oil spray bar for crossheads	<input type="checkbox"/>		
Check pony rod clamp on bolts on crosshead's	<input type="checkbox"/>	Check to see if correct pony rods are installed by gauging distance between it and oil stop plate.	<input type="checkbox"/>	Check to see if baffle plates are doweled in pump	<input checked="" type="checkbox"/>
Loosen pony rod clamp bolts and tighten pony rod then retorque bolts	<input type="checkbox"/>				
		Oil pump Screen	<input type="checkbox"/>		
		If new floaters are not there get parts to install floating seals	<input type="checkbox"/>		

Action Items:

Individual Pump Inspections

Company/Division:		Asset # 38-336		
Rig:				
Pump#:2				
Field Inspection Report -		Make:	Model:	
Recommended Running Clearances		Inches		
	Min.	Max.	Actual	General
Crosshead to slide - Left	.020	.045	0.028	Check all oil lines <input checked="" type="checkbox"/>
Crosshead to slide - Center	.020	.045	0.029	Check all tied Bolts <input checked="" type="checkbox"/>
Crosshead to slide - Right	.020	.045	0.028	Drain & check Cleanouts <input checked="" type="checkbox"/>
Main Bearing - Left	.005	.020	0.010	Check and clean, gear end with diesel if needed <input type="checkbox"/>
Main Bearing - Right	.005	.020	0.010	
Pinion Shaft Bearing - Left	.002	.015	0.007	Pony Rod Alignment <input checked="" type="checkbox"/>
Pinion Shaft Bearing - Right	.002	.015	0.006	Check pony rods for cracks and wear (replace if necessary) <input checked="" type="checkbox"/>
Crosshead Pin Bearing - Left	.002	.005	0.002	
Crosshead Pin Bearing - Center	.002	.005	0.002	Check piston rods for cracks and wear (replace if necessary) <input checked="" type="checkbox"/>
Crosshead Pin Bearing - Right	.002	.005	0.002	
Connecting Rod to Eccentric Bearing - LH	.002	.020	0.006	Check clamps for wear (replace if necessary) <input checked="" type="checkbox"/>
Connecting Rod to Eccentric Bearing - CTN	.002	.020	0.006	
Connecting Rod to Eccentric Bearing - RH	.002	.020	0.007	Check all bearings w/ mirror for pitting and flaking <input checked="" type="checkbox"/>
Oil Pump Pinion to Main Gear - Backlash	.010	.025	0.015	
Pinion Shaft to Main Gear - Backlash	.010	.050	0.030	Check all oil pump screens <input checked="" type="checkbox"/>
Bull Gear Wear			good	Check pillow block bearings on independent pump <input checked="" type="checkbox"/>
Pinion Gear Wear			good	
Extension Rods			good	On inspection replace pony rod seals (Regardless if the rig says they have already been changed seals still need to be checked) <input checked="" type="checkbox"/> replace gaskets if need do not use silicone unless need to fill a void. (do not use to excess because it gets into gear end)
g				
Comments:				
National		Gardner Denver		Continental Emsco
Check troughs	<input type="checkbox"/>	Oil pressure and Gauge	<input type="checkbox"/>	Oil pressure and Gauge <input checked="" type="checkbox"/>
Check crosshead's for cracks at pony rod clamp	<input type="checkbox"/>	Oil Filter	<input type="checkbox"/>	Check pony rod wiper if equipped if not equipped with wipers get parts to correct <input checked="" type="checkbox"/>
		Oil spray bar for crossheads	<input type="checkbox"/>	
Check pony rod clamp on bolts on crosshead's	<input type="checkbox"/>	Check to see if correct pony rods are installed by gauging distance between it and oil stop plate.	<input type="checkbox"/>	Check to see if baffle plates are doweled in pump <input checked="" type="checkbox"/>
Loosen pony rod clamp bolts and tighten pony rod then retorque bolts	<input type="checkbox"/>			
		Oil pump Screen	<input type="checkbox"/>	
		If new floaters are not there get parts to install floating seals	<input type="checkbox"/>	

Action Items:

Individual Pump Inspections

Company/Division:	Asset #
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Rig:	120				
Pump#:3					
Field Inspection Report -	Make:		Model:		
Recommended Running Clearances	Inches				
	Min.	Max.	Actual	General	
Crosshead to slide - Left	.020	.045		Check all oil lines	<input type="checkbox"/>
Crosshead to slide - Center	.020	.040		Check all tied Bolts	<input type="checkbox"/>
Crosshead to slide - Right	.020	.045		Drain & check Cleanouts	<input type="checkbox"/>
Main Bearing - Left	.005	.020		Check and clean, gear end with diesel if needed	<input type="checkbox"/>
Main Bearing - Right	.005	.020			
Pinion Shaft Bearing - Left	.002	.015		Pony Rod Alignment	<input type="checkbox"/>
Pinion Shaft Bearing - Right	.002	.015		Check pony rods for cracks and wear (replace if necessary)	<input type="checkbox"/>
Crosshead Pin Bearing - Left	.002	.005		Check piston rods for cracks and wear (replace if necessary)	<input type="checkbox"/>
Crosshead Pin Bearing - Center	.002	.005			
Crosshead Pin Bearing - Right	.002	.005			
Connecting Rod to Eccentric Bearing - LH	.002	.020		Check clamps for wear (replace if necessary)	<input type="checkbox"/>
Connecting Rod to Eccentric Bearing - CTN	.002	.020			
Connecting Rod to Eccentric Bearing - RH	.002	.020		Check all bearings w/ mirror for pitting and flaking	<input type="checkbox"/>
Oil Pump Pinion to Main Gear - Backlash	.010	.025			
Pinion Shaft to Main Gear - Backlash	.010	.050		Check all oil pump screens	<input type="checkbox"/>
Bull Gear Wear				Check pillow block bearings on independent pump	<input type="checkbox"/>
Pinion Gear Wear					
Extension Rods				On inspection replace pony rod seals (Regardless if the rig says they have already been changed seals still need to be checked) replace gaskets if need do not use silicone unless need to fill a void. (do not use to excess because it gets into gear end)	<input type="checkbox"/>
Comments:					
National		Gardner Denver		Continental Emsco	
Check troughs	<input type="checkbox"/>	Oil pressure and Gauge	<input type="checkbox"/>	Oil pressure and Gauge	<input type="checkbox"/>
Check crosshead's for cracks at pony rod clamp	<input type="checkbox"/>	Oil Filter	<input type="checkbox"/>	Check pony rod wiper if equipped if not equipped with wipers get parts to correct	<input type="checkbox"/>
		Oil spray bar for crossheads	<input type="checkbox"/>		
Check pony rod clamp on bolts on crosshead's	<input type="checkbox"/>	Check to see if correct pony rods are installed by gauging distance between it and oil stop plate.	<input type="checkbox"/>	Check to see if baffle plates are doweled in pump	<input type="checkbox"/>
Loosen pony rod clamp bolts and tighten pony rod then retorque bolts	<input type="checkbox"/>				
		Oil pump Screen	<input type="checkbox"/>		
		If new floaters are not there get parts to install floating seals	<input type="checkbox"/>		

Action Items:

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YOU NEED TO HAVE SIGNATURE'S AND TIME FILLED OUT ON FIRST PAGE

Rig: 120

Date: 9/2/2016

Scheduled Rig Inspection Check List

Air Hoist:

- Check oil in air motor.
- Check grease in gear case.
- Grease throttle valve.
- Check brake system for wear.
- Check cable for fraying.

#1 ASSET 27-
#2 ASSET 27-
#3 ASSET 27-

Comments:

hyd cat heads could find asset numbers

Blocks:

- Check grooves for wear.
- Check smoothness of roll.
- Check for play in bearings.
- Ensure bolts are in place.
- Grease all zerks.

ASSET # 5- 133
ASSET # 67-
COMBO

Comments:

Brakes:

Hydromatic Brakes:

- Jack bearings.
- Inspect couplings. DS _____
- Grease all zerks.

ASSET # 66-
ODS _____

Comments:

n/a

Electric Brakes:

Electric Brake Only:

- Inspect plumbing (must meet Unit Drillings Specifications) Note: contact the maintenance department for instructions.
- Take air gap reading. Reading: _____
- Ensure brass shifting collars suspend off of sleeve OD.
- Ensure vents are in place and clean.
- Grease all zerks.
- Inspect bearing clearance DS _____ ODS _____

66-

Comments:

n/a

Eaton Brake Only:

66- 274

- Grease all zerks.
- Inspect bearing clearance DS 0.007 ODS _____
- Check gap between reaction plates Reading: x gap 0.501 Y gap 2.9 Z gap 2.91
- Record Quantity of discs Number of discs 3
- Check Eaton Brake Temp Gauges Drillers Console x At the Brake x
- Function brakes Auto Safety System

Follow Eaton & Hydraulic Weekly Check Sheet

Tolerances: Test with 25 psi of air pressure

Disc Size	Qty of WC Discs	X new	X max (Adjustment)	Y new	Y min	Z new	Z min
36	1	0.12	0.54	2.75	2.31	—	—
	2	0.24	0.66	2.75	2.31	—	—
	3	0.36	0.78	2.75	2.31	2.75	2.31
	4	0.48	0.90	2.75	2.31	2.75	2.31

Comments:

Dry Cooler:

78-

- Flush Dry Cooler
- Clean Strainer
- Check water Pressures Inlet 15 Outlet 5

Drawworks:

Drum Shaft:

ASSET # 15- 156

- Grease all zerks. Change all filters and clean screens.
- Inspect oil lines. Check oil level & oil quality. Clean pickup screens.
- Inspect clutches for wear and air pressure.
- Inspect tight member teeth for wear and grease.

Jack bearing readings

- DS 0.013
- ODS 0.016
- Other low drum-.016
- Other high drum.012
- Other _____

Comments:

Brake Linkage:

15- 156

- Grease all zerks and insure linkage is tight.
- Inspect break bands for cracks and wear.
- Check brake block bolts and ensure bolts are tight.
- Check brake block thickness, record **thinnest** block measurement. DS 1" ODS 1"
- MPI Inspection on brake Linkage (brake bands, slack adjusters, equalizer without removal).

Comments:

Input Shaft:

Inspect for leaking seals.

15- 156

Jack bearing readings

<input checked="" type="checkbox"/>	DS	0.007
<input checked="" type="checkbox"/>	ODS	0.008
<input type="checkbox"/>	Other	
<input type="checkbox"/>	Other	

Comments:

Output Shaft:

Grease all zerks and inspect oil system.

Jack bearing readings

<input checked="" type="checkbox"/>	DS	0.008
<input checked="" type="checkbox"/>	ODS	0.009
<input checked="" type="checkbox"/>	Other	ds barrel sprocket .012
<input checked="" type="checkbox"/>	Other	ods-.0211

Comments:

Rotary Counter Shaft:

Grease all zerks and inspect oil system.

Jack Bearings (Findings)

<input checked="" type="checkbox"/>	DS	0.004
<input checked="" type="checkbox"/>	ODS	0.004
<input type="checkbox"/>	Other	output-.003
<input type="checkbox"/>	Other	
<input type="checkbox"/>	Other	
<input type="checkbox"/>	Other	

Comments:

Cat Shaft:

Grease all zerks and inspect oil system.

Grease cathead with 4 shots of grease.

Jack bearing readings

<input type="checkbox"/>	DS	ASSET # MU	68- n/a
<input type="checkbox"/>	ODS	ASSET # BO	68- n/a
<input type="checkbox"/>	Other		
<input type="checkbox"/>	Other		

Compound:

15- 156

Engine shafts:

#1 DS _____ #1 ODS _____
 #2 DS _____ #2 ODS _____
 #3 DS _____ #3 ODS _____

Pump drive shaft:

#1 DS _____ #1 ODS _____
 #2 DS _____ #2 ODS _____

Pump sheave shaft:

#1 DS _____ #1 ODS _____
 #2 DS _____ #2 ODS _____

- Grease all zerks and inspect oil system.
- Inspect all chains for wear.
- Ensure all oil pumps are working properly.
- Change all filters and clean screens.

Comments:

diesel-electric

Hook:

ASSET # 28-
 ASSET # 67-
 COMBO

- Check oil in snubber.
- Grease all zerks.
- Visually check for cracks or wear.
- Rotate hook and feel for smoothness of roll.
- Ensure lock is working properly.

Comments:

n/a

Kelly Spinner:

- Run spinner and check bearings. ASSET # 69-
- Ensure air pressure is 90 PSI.
- Grease all zerks.

Comments:

n/a

Mud Pumps:

- Fill out pump inspection report. ASSET # #1 38- 481
- Check piston rods and replace if worn. ASSET # #2 38- 482
- Check rod clamps and replace if worn. ASSET # #3 38-

Comments:

completed on 7-15-14

Independent Pump Drive #1:

- Inspect belts and sheave grooves for wear.
- Inspect chains and chain sprockets for wear.
- Inspect clutch and clutch drum.
- Check air lines and record PSI.
- Record bearing play on engine side of shaft.
- Record bearing play on pump side of shaft.

PSI _____
 Reading _____
 Reading _____

Comments

n/a

Independent Pump Drive #2

- Inspect belts and sheave grooves for wear.
- Inspect chains and chain sprockets for wear.
- Inspect clutch and clutch drum.
- Check air lines and record PSI.
- Record bearing play on engine side of shaft.
- Record bearing play on pump side of shaft.

PSI _____
 Reading _____
 Reading _____

Comments:

n/a

Over running clutch:

- Roll clutch and check oil.
- Check seals for leaks. Note: identify leak found in comments section.)
- Service clutch and grease splines.
- Changed Oil

Comments:

n/a

Pipe Spinners:

- Ensure Spinner is hung level with drill pipe.
- Inspect drive chains and rollers for wear. (clean if necessary)
- Grease all zerks and check hanger spring.

ASSET # 41- 168

Comments:

Rotary Table:

- Pull top off and wash mud out of table.
- Inspect through bore.
- Record main bearing play.
- Record pinion bearing play.
- Record backlash play in gears.
- Check quality of oil

ASSET # 44- 276

Reading 0.04

Reading 0.006

Reading 0.015

Comments:

Swivel:

- Clean mud accumulation around top seals and install mud guard.
- Roll check swivel for smoothness of roll.
- Record endplay readings. Radial run out.
- Check quality of oil

ASSET # 50-

Reading _____

Comments:

can rig intergrated

Crown:

- Inspect grooves for wear.
- Check for play in bearings.
- Check for smoothness of roll.
- Grease all zerks.

ASSET # 10- 120

Comments:

Fail Safe System:

- Test System

ST-80

Comments

- Test operation & check leaks
- Perform ST-80 Inspection Form
- Service ST-80 HPU

HPU

Comments

- Run HPU & check leaks
- Change all filters

charged hpu bottles to 580 psi

Insure Rig Manager knows to change HPU oil once a year

UNIT DRILLING RIG 120 GENERAL LAYOUT

Last Revision: 1/13/2016

