RIG	Doc# /ms-mf-1.1/ Rev.Date 01-05-2012
NAME Randy Reid	Work Order No JOB TITLE Engine Mech
DATE MAINTENANCE STARTED: 10-20-14 EQUIPMENT DESCRIPTION: Engines (SERIAL NUMBER:	2 completed Senetators Radiators & Torque Converta
Travel Time to Rig 2 FROM: \square HOME \square Time from Rig 12 FROM: \square HOME \square Hours at Rig: 36	БНОР
ACTON ITEMS #7 D379 All 4 heads leaking oil	$ \begin{array}{c} $
#2 Gen Set Dil Pun Gasket needs chi #2 Gen Set	$\frac{112}{100}$
oil Pan Gasket needs c	$\frac{1}{10000000000000000000000000000000000$

20	Scheduled En	gine Inspectior	IS
Rig: <u></u> Date: <u></u>	Antifreeze: Preeze point:	Red Green	<u> </u>
Engine Position: Make:	$\frac{1}{C_{H}T}$	If antifreeze is green	test the NA-Cool level
Model: _ Serial Number: _ Asset Number: _	CAR 6530	For 3512's: Radiat	
Hours: _	<u>-801</u>	Aftercoole	er
	3512 individual gauge panels has been silicon	e to prevent water entry.	
Run overhead valvetra	on water cooled turbos (one time only).		
Grease fan hub bearin			
Inspect and clean radi	ators. Note: Wash in oppisite direction of air f	low. (You should be able t	to see clearly through the radiators fins.)
Test shutdown system			
Check and clean auxili	ary oil filter. filters are being serviced (on 3508,3512).		
	Record belt #'s, radiator fan brg.,id	ler brg., shaft size, a	nd pulley sizes.
CAT=	# 3-C		
Generator position:	1	Torque converter	C-245-125
Make:		Oiler chain	
Model:		Clutch size	_91-150
Asset Number:		Hrs since last P.M.	
KW: _	2-	RPM: BRG	
	Review service procedures		personell
Grease and inspect for			
Clean generator and b	low out if necessary.		
	rive Couplings, Plug and Remove all 5589 Rubber, (1) 9H846 O-Ring, (3)		tall New Rubbers and O-Ring Yearly!!!, bound Rubber Coupling,
	_		

Comments: All Heads leaking oil

0	Scheduled En	gine Inspections	8
Rig: 307	7 Antifreeze	🗌 Red 🔀 Green	
	Freeze point	·	
Date: <u>10-20-</u>	14		
Engine Position:	2	If antifreeze is green t	test the NA-Cool level
Make:	$c_{a}+$		110 1100
Model:	2379	For 3512's: Radiato	<u> </u>
Serial Number:	ALA	A.G. 1	
Asset Number: Hours:	877	Aftercooler	
Tighten pan bolts on D-379	9, 398, 399. 2 individual gauge panels has been silicor	a to prevent water entry	
_	vater cooled turbos (one time only).	le to prevent water entry.	
Run overhead valvetrain.			
Grease fan hub bearings ar	nd idler bearings.		
Inspect and clean radiators	5. Note: Wash in oppisite direction of air t	flow. (You should be able to	see clearly through the radiators fins.)
Test shutdown system and			
Check and clean auxiliary o			
Make sure crank case filters	s are being serviced (on 3508,3512).		
R	ecord belt #'s, radiator fan brg.,ic	ller brg., shaft size, and	d pulley sizes.
CAT#	· 3-C		
Generator position:	2	Torque converter	C-245-125
Make:		Oiler chain	
Model:		Clutch size	91149
Asset Number:		Hrs since last P.M.	
KW:		RPM:	
	2-		
	£	BRG	
	Review service procedures		rsonell.
Grease and inspect for wea	Review service procedures		rsonell.
Grease and inspect for wea Clean generator and blow of the second sec	Review service procedures ar.		rsonell.
Clean generator and blow of Check and Grease Drive	Review service procedures ar. but if necessary.	for engines with rig pe Grease Fittings, Instal	II New Rubbers and O-Ring Yearly!!!,
Clean generator and blow of Check and Grease Drive	Review service procedures ar. but if necessary. Couplings, Plug and Remove all 9 Rubber, (1) 9H846 O-Ring, (3)	for engines with rig pe Grease Fittings, Instal	II New Rubbers and O-Ring Yearly!!!,
Clean generator and blow of Check and Grease Drive	Review service procedures ar. but if necessary. Couplings, Plug and Remove all 9 Rubber, (1) 9H846 O-Ring, (3)	for engines with rig pe Grease Fittings, Instal Tubes 5N5561 Compo	II New Rubbers and O-Ring Yearly!!!,

Schedu	led Engine Inspections
301 A	ntifreeze: Red KGreen
Ng	eze point:
Date: 10-21-14	If antifreeze is green test the NA-Cool level
Engine Position: #2 Pump	
Make: Model:	For 3512's: Radiator <u>~30</u>
Serial Number:	
Asset Number: 22-1920 Hours: 16385	Aftercooler <u>-30</u>
Tighten pan bolts on D-379, 398, 399.	
Ensure D-3508 and D-3512 individual gauge panels has	
Clean water passages on water cooled turbos (one time	only).
Run overhead valvetrain.	
Grease fan hub bearings and idler bearings.	ction 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)	3,3512).
	· · · · · · ·
Record belt #'s, radiator	fan brg.,idler brg., shaft size, and pulley sizes.
5UX 132	_
	_
5UX 132	0
Generator position:	0
Generator position: Make:	O
Generator position: Make: Model:	Torque converter C-300-/00 Oiler chain 9/-09 Clutch size 9/-09 Hrs since last P.M. RPM:
SUX 132 Generator position: Make: Model: Asset Number: KW:	Torque converter C-300-/00 Oiler chain 9/-09 Clutch size 9/-09 Hrs since last P.M.
Generator position: Make: Model: Asset Number: KW:	Torque converter C-300-/00 Oiler chain 9/-09 Clutch size 9/-09 Hrs since last P.M. RPM:
Generator position: Make: Model: Asset Number: KW: Review service pro-	Torque converter C-300-/00 Oiler chain 9/-09 Clutch size 9/-09 Hrs since last P.M.
Generator position: Make: Model: Asset Number: KW: Check and Grease Drive Couplings, Plug and Review Service Provided For Service	Torque converter C-300-/00 Oiler chain 9/-09 Clutch size 9/-09 Hrs since last P.M.
Generator position: Make: Model: Asset Number: KW: Check and Grease Drive Couplings, Plug and Review Service Provided For Service	Torque converter C-300-/00 Oiler chain 9/-09 Clutch size 9/-09 Hrs since last P.M. 2-BRG ocedures for engines with rig personell. emove all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!,

ı

Scheduled Er	ngine Inspections
SO7 Antifranze	
Date: 10-21-14 Freeze poin	If antifreeze is green test the NA-Cool level
Engine Position:	
Make: Detroit	-1/0 1900
Model: 60 Series	For 3512's: Radiator <u>-40 1800</u>
Serial Number: 0680973096	· · · · · · · · · · · · · · · · · · ·
Asset Number:	Aftercooler
Hours: 17564	
Tighten pan bolts on D-379, 398, 399.	
	and to provent water entry
Ensure D-3508 and D-3512 individual gauge panels has been silice	she to prevent water endy.
Clean water passages on water cooled turbos (one time only).	
Run overhead valvetrain.	
Grease fan hub bearings and idler bearings.	
	r 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.
O	
$5^{-} \pi 67$	
Generator position:	Torque converter
Make:	Oiler chain
Model: 450REDZDI	Clutch size/
Asset Number: <u>24489</u>	_Hrs since last P.M.
KW: 450	RPM:
	BRG
Review service procedure	s for engines with rig personell.
KGrease and inspect for wear.	
Clean generator and blow out if necessary.	
Check and Grosse Drive Countings, Dive and Persons	all Grease Fittings, Install New Rubbers and O-Ring Yearly!!!,
(3)7L-5589 Rubber. (1) 9H846 O-Rina. (3)) Tubes 5N5561 Compound Rubbers Coupling,
(-, , (-,	, , , , , , , , , , , , , , , , , , , ,

Comments:

Sched	uled Engine Inspections
Rig: 30/	Antifreeze: Red Green 2000
Fr	eeze point:
Date: 10-22-14	If antifrance is great the NA Cost level
Engine Position: #2, Gen	If antifreeze is green test the NA-Cool level
Make: Detroit Model: 60 Spaces	For 3512's: Radiator
Serial Number: 06R0973	097
Asset Number:	Aftercooler
Hours: 1384 6	•
Tighten pan bolts on D-379, 398, 399.	
Ensure D-3508 and D-3512 individual gauge panels ha	as been silicone to prevent water entry.
Clean water passages on water cooled turbos (one tim	ie only).
Run overhead valvetrain.	
Grease fan hub bearings and idler bearings.	rection 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 35	08,3512).
Record belt #'s, radiato	r fan brg.,idler brg., shaft size, and pulley sizes.
$\bigcirc \land \land$	$f \downarrow f$
5-A	64
Generator position: #2 Gen	Torque converter
Make: Detroit	Oiler chain
Model: <u>450RE07</u>	<u>LDP</u> Clutch size
Asset Number: 24-89	Hrs since last P.M.
кw: <u>450</u>	RPM:
	2-BRG
	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:

ROTARY SCREW AIR COMPRESSOR MAINTENANCE CHART

			Last Opua	ted: SEPTEMBER 05, 2013		Palasyn 45
Riç	g #	30)7	Oil Type		
MODEL #	palatek	50 dg	SERIAL #		ASSET #	2-372
HRS	115	568	W/O #	51589	DATE	3/11/2014
COMPANY		Unit		TECHNICIAN	Guy Pl	nillips
		DESCRI		WORK AND PA	RTS USED	
Completed				CHANGED OIL		
Completed				CHANGED OIL FILTE	R	
Completed				CHANGED AIR FILTE	R	
Completed				CHANGED SEPERAT	OR	
Completed				CLEANED RADIATO	R	
Completed	ADDED NEW OIL SAMPLE VALVE					
Completed	CHECK AND INSPECT DRIVE COUPLINGS					
Completed	DRAIN WATER FROM TANK					
Completed	OPEN PANEL DOOR AND CHECK TO BE SECURE					
Completed			CHECK A	LL SIGNAL LINES (BLA	CK PLASTIC)	
Completed			ENSURE IT I	S CLEAN AND WASH	WITH SOLVENT	
			PALATI	EK COLD START	-	
	CHANGE EN YOU SERVIC			TER, FUEL FILTER AN	D TAKE AN OIL SA	MPLE EVERY TIME
Completed	YEARLY SER THE FILTER.	VICE THE AI	R END OF TH	IE COMPRESSOR (OIL	AND ALL FILTERS	S)- MARK THE DATE ON
			PALA1	EK AIR DRYER		
Completed	Cŀ	ANGED INL		ET FILTER TO DRYER	. USE ONLY PALA	TEK FILTERS.
			Condit	ion of equipment		

ast Updated: SEPTEMBER 05, 2013

ROTARY SCREW AIR COMPRESSOR MAINTENANCE CHART

Last Updated: SEPTEMBER 05, 2013

Riç	g #	3()7	Oil Type		Palasyn 45	
MODEL #	palatek	palatek 50 dg SER			ASSET #	2-371	
HRS	20	94	W/O #		DATE		
COMPANY				TECHNICIAN			
DESCRIPTION OF WORK AND PARTS USED							
Completed				CHANGED OIL			
Completed				CHANGED OIL FILTER			
Completed				CHANGED AIR FILTER			
Completed				CHANGED SEPERATO	R		
Completed				CLEANED RADIATOR			
Completed	ADDED NEW OIL SAMPLE VALVE						
Completed	CHECK AND INSPECT DRIVE COUPLINGS						
Completed	DRAIN WATER FROM TANK						
Completed	OPEN PANEL DOOR AND CHECK TO BE SECURE						
Completed	CHECK ALL SIGNAL LINES (BLACK PLASTIC)						
Completed	ENSURE IT IS CLEAN AND WASH WITH SOLVENT						
	PALATEK COLD START						
Completed	YOU SERVIC	E THE RIG A	IR COMPRES				
Completed	YEARLY SERVICE THE AIR END OF THE COMPRESSOR (OIL AND ALL FILTERS)- MARK THE DATE ON THE FILTER.						
			PALA1	EK AIR DRYER			
Completed	Cł	HANGED INLE	ET AND OUTL	ET FILTER TO DRYER.	JSE ONLY PALA	TEK FILTERS.	
			Condit	ion of equipment			



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RIG 307

Pump Inspection

NAME	guy phillips			
JOB TITLE:	field tech	_	Work Order N	52800
DATE MAINTENANCE STARTED	5/19/2014	-	COMPLETED:	5/22/2014
EQUIPMENT DESCRIPTION:			CE FB-1600	
SERIAL NUMBER:		-	#1 Asset 3 Make 0 Model	
Travel Time to Rig		From: HOME	#2 Asset Make	CE
Time at Rig:		_	#3 Asset	FB-1600
Travel Time from Rig		_To:HOME SHOP	Make Model	
[ACTON ITEMS		
changed radiator on #1 pump asse	mble			

		naividu	al Pump Insp	ections		
Company/Division:				Asset #	38-413	
Rig:				307		
Pump#:1						
Field Inspection Report -		Make:	CE	Mode	l: FB-1600	
Recommended Running Clearances		Inches				
		Min.	Max.	Actual	General	
Crosshead to slide - Left Crosshead to slide - Center		.020 .020	.045	0.026	Check all oil lines Check all tied Bolts	✓ ✓
Crosshead to slide - Right		-				 ✓ ✓
*		.020	.045	0.029	Drain & check Cleanouts	
Main Bearing - Left		.005 .005	.020	0.010	Check and clean, gear end with diesel if needed	
Main Bearing - Right		.005	.020			\checkmark
Pinion Shaft Bearing - Left Pinion Shaft Bearing - Right		.002	.015	0.008	Pony Rod Alignment Check pony rods for cracks	\checkmark
Crosshead Pin Bearing - Left		.002	.015	0.009	and wear (replace if necessary)	Ľ
Crosshead Pin Bearing - Center		.002	.005	0.002	Check piston rods for cracks	~
Crosshead Pin Bearing - Right		.002	.005	0.002	and wear (replace if necessary)	
Connecting Rod to Eccentric Bearing	·IH	.002	.020	0.000	Check clamps for wear	\checkmark
Connecting Rod to Eccentric Bearing		.002	.020	0.006	(replace if necessary)	
Connecting Rod to Eccentric Bearing		.002	.020	0.008	Check all bearings w/ mirror	\checkmark
Oil Pump Pinion to Main Gear - Backlash		.010	.025	0.015	for pitting and flaking	
Pinion Shaft to Main Gear - Backlash		.010	.050	0.032	Check all oil pump screens	\checkmark
Bull Gear Wear					Check pillow block bearings	\checkmark
Pinion Gear Wear					on independent pump	
Extension Rods					On inspection replace pony	\checkmark
		•	•		rod seals (Regardless if the	
	Comr	ments:			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)	
National			Gardner Denver	-	Continental Emsco	-
Check troughs		Oil pressu	re and Gauge		Oil pressure and Gauge	\checkmark
Check crosshead's for cracks		Oil Filter			Check pony rod wiper if equipped	\checkmark
at pony rod clamp		Oil spray b	oar for crossheads		if not equipped with wipers get parts	
Check pony rod clamp			see if correct pony		to correct	_
on bolts on crosshead's			nstalled by gauging		Check to see if baffle plates	\checkmark
Loosen pony rod clamp bolts and			etween it and oil		are doweled in pump	
tighten pony rod then retorque bolts		stop plate.		_	4	
		Oil pump \$			4	
			ters are not there get			
		parts to ins	stall floating seals	1		

Individual Pump Inspections

Company/Division:				Asset #	38-412	
Rig:	307					
Pump#:2						
Field Inspection Report -		Make:	CE	Mode	el: FB-1600	
Recommended Running Clearances		Inches		1	1	
		Min.	Max.	Actual	General	
Crosshead to slide - Left		.020	.045	0.026	Check all oil lines	\checkmark
Crosshead to slide - Center		.020	.040	0.028	Check all tied Bolts	\checkmark
Crosshead to slide - Right		.020	.045	0.031	Drain & check Cleanouts	\checkmark
Main Bearing - Left		.005	.020	0.010	Check and clean, gear end	
Main Bearing - Right		.005	.020	0.012	with diesel if needed	
Pinion Shaft Bearing - Left		.002	.015	0.006	Pony Rod Alignment	\checkmark
Pinion Shaft Bearing - Right		.002	.015	0.005	Check pony rods for cracks	\checkmark
Crosshead Pin Bearing - Left		.002	.005	0.003	and wear (replace if necessary)	
Crosshead Pin Bearing - Center		.002	.005	0.001	Check piston rods for cracks	\checkmark
Crosshead Pin Bearing - Right		.002	.005	0.003	and wear (replace if necessary)	
Connecting Rod to Eccentric Bearing -	LH	.002	.020	0.012	Check clamps for wear	1
Connecting Rod to Eccentric Bearing - CTN		.002	.020	0.016****	(replace if necessary)]
Connecting Rod to Eccentric Bearing - RH		.002	.020	0.004	Check all bearings w/ mirror	\checkmark
Oil Pump Pinion to Main Gear - Backlash		.010	.025	0.019	for pitting and flaking	
Pinion Shaft to Main Gear - Backlash		.010	.050	0.035	Check all oil pump screens	\checkmark
Bull Gear Wear					Check pillow block bearings	V
Pinion Gear Wear					on independent pump	Ľ
Extension Rods					On inspection replace pony	
			•		rod seals (Regardless if the	
	Comr	ments:			rig says they have already	
cente	er con rod o	clearance is high			been changed seals still	
		de good to see care on equipment			need to be checked)	\checkmark
					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)	
National			Gardner Denver		Continental Emsco	
Check troughs		Oil pressur	e and Gauge		Oil pressure and Gauge	\checkmark
Check crosshead's for cracks		Oil Filter			Check pony rod wiper if equipped	_
at pony rod clamp			ar for crossheads	\Box	if not equipped with wipers get parts	\checkmark
Check pony rod clamp			ee if correct pony		to correct	
on bolts on crosshead's			stalled by gauging		Check to see if baffle plates	\checkmark
Loosen pony rod clamp bolts and			etween it and oil		are doweled in pump	
tighten pony rod then retorque bolts		stop plate.				1
	1	Oil pump S	Screen		1	
				_	1	
		If new floaters are not there get parts to install floating seals				
		puris to ma	Action Items:	1		

	Individual Pump Inspections
Company/Division:	Asset #

Rig:		307						
Pump#:3								
Field Inspection Report -		Make:		l:				
Recommended Running Clearances								
			Min. Max. Actual		General			
Crosshead to slide - Left		.020	.045		Check all oil lines			
Crosshead to slide - Center		.020	.040		Check all tied Bolts			
Crosshead to slide - Right		.020	.045		Drain & check Cleanouts			
Main Bearing - Left		.005	.020		Check and clean, gear end			
Main Bearing - Right		.005	.020		with diesel if needed			
Pinion Shaft Bearing - Left		.002	.015		Pony Rod Alignment			
Pinion Shaft Bearing - Right		.002	.015		Check pony rods for cracks			
Crosshead Pin Bearing - Left		.002	.005		and wear (replace if necessary)			
Crosshead Pin Bearing - Center		.002	.005		Check piston rods for cracks			
Crosshead Pin Bearing - Right		.002	.005		and wear (replace if necessary)			
Connecting Rod to Eccentric Bearing	- LH	.002	.020		Check clamps for wear			
Connecting Rod to Eccentric Bearing	- CTN	.002	.020		(replace if necessary)			
Connecting Rod to Eccentric Bearing	- RH	.002	.020		Check all bearings w/ mirror			
Oil Pump Pinion to Main Gear - Backl	ash	.010	.025		for pitting and flaking			
Pinion Shaft to Main Gear - Backlash		.010	.050		Check all oil pump screens			
Bull Gear Wear					Check pillow block bearings			
Pinion Gear Wear					on independent pump			
Extension Rods					On inspection replace pony			
			•	•	rod seals (Regardless if the			
	Com	nments:			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)			
National			Gardner Denver		Continental Emsco			
Check troughs		Oil pressu	ire and Gauge		Oil pressure and Gauge			
Check crosshead's for cracks	_	Oil Filter	and Caago	\Box	Check pony rod wiper if equipped			
at pony rod clamp			bar for crossheads		if not equipped with wipers get parts			
Check pony rod clamp					to correct			
on bolts on crosshead's		Check to see if correct pony			Check to see if baffle plates	+		
			rods are installed by gauging		are doweled in pump			
Loosen pony rod clamp bolts and		stop plate	distance between it and oil					
tighten pony rod then retorque bolts	1	Oil pump			1			
				1				
If new floaters are not there get parts to install floating seals								
<u> </u>		parts to In	Action Items:	1				

			RIG	Doc# /r		ev.Date 7-23	-2012
			RIG		307		
			Rig Inspectio	on			
NAME	guy phillips	3					
JOB TITLE	field tech		_	Work Or	der No.	52800	
DATE MAINTEN	ANCE STARTED:	5/1	9/2014	COMP	LETED	5/22/2	014
EQUIPMENT DESCR	RIPTION:			GD-800			
SERIAL NUMBER:			ASSI	ET # :		15-123	
Travel Time to Rig Time at Rig:		FROM:	НОМЕ		SHOP		
Time from Rig		FROM:	Номе		SHOP		
		ACTO	ON ITEMS				
change quick releases o	on master clutch						
repair fan shrouds on bo	oth gen sets						
order new fan for #2 ger	n set						

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Rig:	307				
Date:	5/22/2014	4			
		Scheduled Rig Inspection	on Check List		
Air F	loist:				
Check oil	in air motor.		#1 ASSET	27- 111	
Check gre	ase in gear case.		#2 ASSET	27- 43	
Grease thr	ottle valve.		#3 ASSET	27-	
Check brak	ke system for wear.				
Check cab	le for fraying.				
		Comn	nents:		
Blo	cks:				
Check gro	oves for wear.		ASSET #	5-	
Check sm	oothness of roll.		ASSET #	67- 122	
Check for	olay in bearings.			COMBO	
Ensure bol	ts are in place.				
✓Grease all	zerks.				
		Comn	nents:		
Bra	kes:				
		Hydromatic Bra	kes:		
Jack beari	ngs.		ASSET #	66- 140	
✓Inspect co	uplings. DS	0.008	ODS_	0.011	
√ Grease all	zerks.				
		Comn	nents:		
		Electric Brake	s:		
	rake Only:		—	66-	
Inspect plu	-	Init Drillings Specifications) Note: contact t Reading:	he maintenance department for i	nstructions.	
*		pend off of sleeve OD.			
	ts are in place and cle	ean.			
Grease all :	zerks. aring clearance	DS	ODS		
		Comn			

Eaton Brake	only:					66-		
Grease all zerk		D.C.			0.00			
Inspect bearing Check gap betw	veen reaction pla		Y			-		
Record Quantit	•	reading.	X gap		Y gap	Z	gap	
Check Eaton Br	-	Number of discs						
Function brakes	s Auto Safety Sys				At the Bral			
_	5 5	ing (leaks, cracks, kinks,		on & Hydrai	инс ууеекту	Check Sheet		
Inspect high te	mperature warnii	ng system for correct ope	ration					
Inspect flow me	eter for correct o	peration. Record GPM:						
Tolerances:		-			Test	with 25 psi of air p	pressure	_
Disc Size	Qty of WC Discs	X new	X max (Adjustment)	Y new	Y min	Znew	Z min	
	1	0.12	0.54	2.75	2.31	1	-	
36	2	0.24 0.36	0.66	2.75	2.31			-
	3	0.38	0.78 0.90	2.75 2.75	2.31 2.31	2.75 2.75	2.31	-
			Comments:	2.70	2.01	2.10	2.01	
Inspect coolan Inspect and re Clean Strainer Check fresh wa Flush Heat Exc Drawwor Grease all zerk: Inspect clutche Inspect clutche Inspect tight m	e and hard plumt t tank low coolan cord coolant leve ater pressures hange s. Change all filte s. Change all filte s. Check oil level es for wear and ai hember teeth for	Inlet ers and clean screens. & oil quality. Clean pickup ir pressure. wear and grease.	Drum Shaft: o screens. < bearing readings 0.007	Coolant	t Level:			
	DS		0.009					
✓ Ot	her		ow clutch .003					
□ Ot	her	ŀ	high clutch .002					
Ot	Comments:							
Brake Link	age:							
Grease all zerk	<u> </u>	age is tight.				15- 123		
─ Inspect break I	bands for cracks	and wear.						
Check brake bl	ock bolts and ens	sure bolts are tight.						
Check brake		s, record <u>thinnest</u>	DS	0.001		ODS	0.003	

MPI Inspection on brake Linkage (brake bands, slack adjusters, equalizer without removal).

Ir	nput Shaft:			
✓ Inspect for leaking seals.		look booring roodings	15- 123	3
v	DS	Jack bearing readings 0.005		
<u> </u>	ODS	0.007		
	Obs	live sprocket .009		
<u> </u>	Other	barrel sprocket .004		
	Other	Comments:	<u> </u>	
0	utput Shaft.			
	utput Shaft: se all zerks and inspec	t oil system		
- Orea		Jack bearing readings		
\checkmark	DS	0.008		
\checkmark	ODS	0.004		
\checkmark	Other	live sprocket .008		
\checkmark	Other	barrel sprocket .007		
		Comments:		
F	Rotary Counter S	Shaft:		
Grea	se all zerks and inspe	ct oil system.		
		Jack Bearings (Findings)		
\checkmark	DS	0.004		
\checkmark	ODS	0.006		
\checkmark	Other	live sprocket .005		
	Other			
	Other			
	Other	Comments:		
		comments.		
(Cat Shaft:			
Grea	se all zerks and inspe	ct oil system.		
Greas	se cathead with 4 sho	0		
~	DS	Jack bearing readings 0.006		60 222
2 2	ODS	0.006	ASSET # MU	68- 333
	ODS	0.000	ASSET # BO	68- 342
	Other			

Compound:				15- 123	
		Engine shafts:			
#1 DS	.005	#1 ODS	.003	-	
#2 DS	.003	#2 ODS	.007	-	
#3 DS		#3 ODS		-	
#4 D0		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 inspec	t oil system.			-	
Inspect all chains for wear.					
Ensure all oil pumps are we	orking properly.				
Change all filters and clean	screens.				
		Commen	ts:		
			100FT //	00	
Hook:			ASSET #	28-	_
—			ASSET #	67- 122 COMBO	_
Grease all zerks.					
Visually check for cracks of					
Rotate hook and feel for sr					
Ensure lock is working pro	perly.	Commen	ts:		
		bell area is show	ving wear		
Kelly Spinner:					
Run spinner and check bea	-		ASSET #	69-	_
Ensure air pressure is 90 P	SI.				
Grease all zerks.		0	t		
		Commen	15:		
Mud Pumps:					
Fill out pump inspection re	port.		ASSET #	#1 38- 413	_
Check piston rods and repl	ace if worn.		ASSET #	#2 38- 412	
Check rod clamps and repl	ace if worn.		ASSET #	#3 38-	_
		Commen	ts:		

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.	PSI		116	
Record bearing play on engine side of shaft.	Reading		0.006	
Record bearing play on pump side of shaft.	Reading		0.008	
	Comments	-		
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.	PSI		116	
Record bearing play on engine side of shaft.	Reading		0.004	
Record bearing play on pump side of shaft.	Reading		0.007	
	Comments:		0.001	
Over running clutch:				
Roll clutch and check oil.				
Check seals for leaks. Note: identify leak found in comments s	ection.)			
Service clutch and grease splines.				
Changed Oil				
	Comments:			
Pipe Spinners:				
Ensure Spinner is hung level with drill pipe.		ASSET #	41-	
Inspect drive chains and rollers for wear. (clean if necessary)				
Grease all zerks and check hanger spring.				
Γ	Comments:			

Rotary Table:				
Pull top off and wash mud out of table.		ASSET #	44- 172	
✓Inspect through bore.				
Record main bearing play.	Reading		10 5/16	
Record pinion bearing play.	Reading		0.015	
Record backlash play in gears.	Reading		0.075	
Check quality of oil				
	Comments:			
Swivel:				
Clean mud accumulation around top seals and install mud gua	ard.	ASSET #	50-	
Roll check swivel for smoothness of roll.		A00L1 #	50-	
Record endplay readings. Radial run out.	Pooding			
Check quality of oil	Reading			
	Comments:			
Crown				
Crown:		A O O F T #	40	
Check for play in bearings.		ASSET #	10-	
Check for smoothness of roll.				
✓ Grease all zerks.				
	Comments:			
COL	uld not locate asset t	ag		
Fail Safe System:				
Test System				
ST-80	_			
Test operation & check leaks	Cor	nments		
Perform ST-80 Inspection Form				
Service ST-80 HPU				_
				_
HPU	_			
Run HPU & check leaks	Cor	nments		
				_
Change all filters				

Insure Rig Manager knows to change HPU oil once a year