CR504.

FIELD SERVICE RECORD

Service No. 40035

JOB CAR	D No.	WARRANTY	No:					JOB No:			
CUSTOMER	DETAILS	NAME:		San	3						
COSTOMER	DE IAILS	CONTACT	Γ:		Jak	0		PHONE:			
MAGUINE	DETAIL C	MAKE:		67	oat	2		SERIAL No:	10W	670G1	150 69/16
MACHINE	DETAILS	HOURS:		77	7.6			DATE:	29	1 11	12019
		MAG	CHINE	FAU	LT/C	OME	PLAINT				/
Slight	ubratio.	at	10	450	- 1	55	0 00	V-5			
9							1				
							2010				
	CAUSE										
Unknown - would not fault and on this											
			WOR	K CO	MDI	ETE	D				
Reforgued	(ab	2-1-2	11/2/20								
1 1	out m	and ex	1914	7		اسرا	00/7				
- Carried			Ω'	1	05		6-1	1 6.1		6	1
- Checked	Annual Control of the	odial rulevels an					The state of the s	Oct Dala	vice.	(.)	; 2 . n . n
Aluffering		1 0	10Vm					wirpon	9.	.)	
		ζ	VOI.VI.	V.	19.1.2				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
- Sent bo	ick to	worle,	see 1	C o	rohl		devel	000 ((0	16	not	fout
SITE TRAVELLI		on texties	9	1	1000	un	0000	9/3 (10)	710	1001	1 00004 /
KILOMETRES				PHOT (circle		YES NO					
TECHNICIAN	0 6	1	E-0	OIL			LITRES	COOLANT	LITRES		TRES
NAME	Sam t	ashin	H-0	OIL	-		LITRES	S GREASE		LITRES	
TECHNICIAN			G-0	OIL			LITRES	CONS	\$		
SIGNATURE	1		Co	Job mplete	, d	YES	s NO	Parts Returne	ч	YES	NO
TRAVEL	Start:	Finish:	00		PAIR	TIV	1E	Start:	u	Finish:	
			JOB S								
	HAZARD			YES	NO			CONTRO	OLS		
1. Is machine on leve				/				chine to suitable l	Manager of Alexander State Sta		
2. Is machine in safe 3. If using oxy/welder				-				chine/safety cone chine/fire extingu			if required
4. Is machine on level		II-lialililiable area						ety stands/blocks	131161/110	t permits	ii required
5. Is machine in confi		th poor ventilation			1	the same of the same of	YES - move m			n to	
6. Does job require w		t (above ground)			/			ness/man cage			
7. Is heavy lifting requ		-1:11)		0.40			YES - use med				
8. Are there any trip s 9. Is correct PPE avai	The state of the s	er spili)		/				achine/clean spill rrect PPE/safety (rlasses		
27 to consocrate avail		CONTACT O	FFICE II	F UNAB	LE TO		PLETE REPA		J.40000		
							S/COMMENT				
OWNED (OFNIT	1	4			4.4					
OWNER/A SIGNAT		AH	20						25	1 (1	119
	Sa 0	Tral 1	0	O	4160	0.0	Citie	THE PERSON NAMED IN	THE REAL	() () () () () () () () () () () () () (

Certificate of Analysis

				,
DATE SAMPLED		16-Feb-20	10-Jun-19	
DATE RECEIVED		30-Apr-20	18-Jun-19	
DATE REPORTED		30-Apr-20	19-Jun-19	
TRIBOLOGY LABORATO	RY	Brisbane	Brisbane	
SAMPLE NO.		10003508831	10003372660	
TRACKING NUMBER		29661101	25186651	
WORK ORDER NO.		23001101	23100031	
	Hrs	950	503	
	Hrs	950	503	
OIL	Hrs	950		
OIL MAKE		John Deere	John Deere	
OIL TYPE		Hy-Gard JDM J20C	Hy-Gard JDM J20C	
OIL GRADE		ISO 68	ISO 68	
	Ltrs	2.0		
	Hrs	950		
FILTER CHANGED OIL CHANGED		Changed Not Changed	Not Changed	
		Not Changed	Not Changed	
Metals (ppm)			4	
Aluminium (Al)		<1	1	
Copper (Cu)		2	2	
Chromium (Cr)		2	2	
Iron (Fe)		6	3	
Lead (Pb)		<1	<1	
Tin (Sn)		<1	<1	
Nickel (Ni)		<1	1	
Contaminants and Addi	itives (p		_	
Silicon (Si)		3_	3	
Boron (B)		<5	7	
Sodium (Na)		1	<1	
Potassium (K)		2	2	
Phosphorus (P)		547	546	
Molybdenum (Mo)		<1	1	
Magnesium (Mg)		1	1	
Calcium (Ca)		100	75	
Zinc (Zn)		707	734	
Physical Tests				
Water (%) (FTIR)		<0.1	<0.1	
Oxidation (Abs) (FTIR)		32.9	34.5	
Viscosity (cSt,40°C)		60	60	
PQ Index		<10	<10	
Particle Count				
ISO 4406 Code		19/15/11		
ISO Clean 4 Micron (c)		19		
ISO Clean 6 Micron (c)		15		
ISO Clean 14 Micron (d	c)	11		
			(!)	

Hydraulic System

Unit No. GR504

Unit:

Make John Deere Model 670GP

Serial No. 1DW670GPHJD691114

Capacity 53.0 Ltrs Site Yamba

Compartment:

Name Hydraulic System

Make Model Serial No.

Customer:

DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As filter(s) already changed, resample next recommended service interval to further monitor.

Analysis undertaken on the sample as received. Testing performed between Date Received and Date Reported unless otherwise specified.







Right Solutions • Right Partner



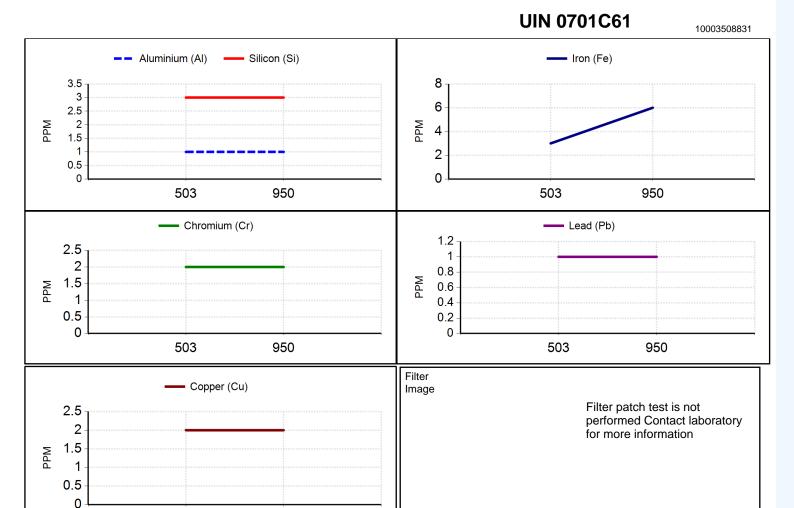
LEGEND







Right Solutions • Right Partner



This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other

503

950

All test methods are determined by laboratory location, and customer requirements. Methods can be made available on request by contacting the testing laboratory.

Alarm limits are based on a combination of trend and OEM, client and/or ALS proprietary specifications. For more information please contact your testing laboratory.

PLANT INSPECTION REPORT

Make: Ohn Deele M Unit/fleet No. G-R 504 SI	lodel: 670 C	-P								
Unit/float No GRS04 SI	MU	Date								
ROPS CANOPY (except for Road	Trucks, Drills, Ex	(cavator) IES/NO								
Seat belts fitted?	A. S. S. S. S. S.									
All Safety Guards fitted?		YES/NO								
Floshing lights working?	Electing lights working?									
Fire extinguisher fitted and charge	ed?	YESINO								
Reverse alarm operational?	27.2.2	XES/NO								
All vehicle systems operational?		ÆS/NO								
Engine	Operational	Comments/ Action to undertaken								
Water leaks	YES NO									
Radiator hose and clamps	YES NO									
Radiator core condition	YES NO									
Veebelt condition and adjustment	YES NO									
Fan hub bearings	YES NO	1 1 2								
Oil leaks	YES NO									
Air intake hoses and clamps	YES NO									
Air cleaner indicator level	YES NO									
Mountings	YES // NO									
Battery condition	YES NO									
Drive Train	/									
Transmission oil leaks	YES V NO									
Wheel hub oil leaks	YES V NO									
Wheel nuts and lock	YES VNO									
Front and rear drive line condition	YES V NO									
Vehicle System	113									
	YES NO									
Steering linkages	YES V NO									
Articulation bearings and retainers	YES NO									
Main frame cracks	YES NO									
Air leaks	YES NO									
Drain air tanks	YES VNO									
Hydraulic operation	YES V NO									
Hydraulic oil leaks	YES NO									
Service/Park brake operation	TES VINO									
Cab	YES V NO	1								
Steps/Grab rail	YES V NO	1								
General cab condition	YES V NO	1								
Lights (Head, Tail and Dash)		1								
Warning lights and gauges	YES NO	1								
Control linkages	YES NO	1								
Air conditioner operation	YES NO [

PLANT INSPECTION REPORT

Tyre/Track Assessment New Drive tyres.	
Attachments Fitted/Included	
rippers all in good condition.	
Concerns - Land Hallang varieties of May Hy distribution of Hallang varieties (2) Land (Recent) - Land (Land Land Land Land Land Land Land Land	
Condition of Bucket, Bowl, Blade, Body: Blade in good condition 50% on edge's.	
Attachments Fitted/Included Tippers all in good condition Condition of Bucket, Bowl, Blade, Body: Rlade in good condition 50% on edge's Other Comments: Inspected by: ARC Signature: Date: 22-1-21 Certification by Responsible Person: certify that the described plant is to the manufactures specifications and is being erviced and maintained by competent personnel to the manufacturers recommendations.	
Inspected by: 1912 Signature: Signature: Date: 22-1-21	
Certification by Responsible Person: Certify that the described plant is to the manufactures specifications and is being serviced and maintained by competent personnel to the manufacturers recommendations.	
Signature: July Date: 12-1-21 Print Name: Jake Velly Position: Workshop Supercisor	

Asset: GR504 - John Deer 670GP Grader -79591D Work Order: 361

Root Cause:

Description: 5000 hours service

VIN/SerialNo	Location	Hours K	(ms	Priority	Fitter/s	Scheduled Start	
	Unknown	0 0)	Routine service		2022-11-23	

Item	Work Needed	Work Done	Extra	Status	Date Closed	Image
1	Check/Top Up Battery Electrolyte Level			Closed	2023-11-23 00:00:00	
2	Inspect Adjust V Belt Tension			Closed	2023-11-23 00:00:00	
3	Check/Top Up Coolant Levels			Closed	2023-11-23 00:00:00	
4	Check/Top Up Hydraulic Oil Level			Closed	2023-11-23 00:00:00	
5	Check/Top Up Diff Oil Levels			Closed	2023-11-23 00:00:00	
6	check auto greaser level and lines			Closed	2023-11-23 00:00:00	
7	check air intake hoses			Closed	2023-11-23 00:00:00	
8	Grease Drive Line Uiniversal Joints			Closed	2023-11-23 00:00:00	
9	Check/Top Up Transmission Oil Level			Closed	2023-11-23 00:00:00	
10	Drain Water/Sediment From Fuel/Water Separator			Closed	2023-11-23 00:00:00	
11	Drain Water/Sediment From Fuel Tank Drain Plug On Left Hand Side			Closed	2023-11-23 00:00:00	
12	Machine Safety Inspection			Closed	2023-11-23 00:00:00	
13	A Fire Extinguisher Has Been Fitted To The Machine			Closed	2023-11-23 00:00:00	
14	The Fire Extinguisher Is Within Inspection Date			Closed	2023-11-23 00:00:00	
15	A Seat Belt Has Been Fitted To The Machine			Closed	2023-11-23 00:00:00	
16	The Seat Belt Is In Good Condition & Can Be Adjusted Correctly			Closed	2023-11-23 00:00:00	
17	The Operator'S Seat Is In Good Condition, Is Fully Adjustable & Secure			Closed	2023-11-23 00:00:00	
18	The Machine Service Brake System Passes The Stall Test			Closed	2023-11-23 00:00:00	
19	The Machine Parking/Emergency Brake System Passes The Stall Test			Closed	2023-11-23 00:00:00	
20	Reverse/Travel Alarm Is Fitted & Functions Correctly			Closed	2023-11-23 00:00:00	
21	The Steering System Is Responsive			Closed	2023-11-23 00:00:00	
22	The Emergency Steering System Functions When			Closed	2023-11-23 00:00:00	

	Actuated		
23	Cabin Glass Is Secure & Free From Damage	Closed	2023-11-23 00:00:00
24	No Active Fault Alarms Are Indiciated On The Monitor Panel	Closed	2023-11-23 00:00:00
25	Rops/Fops Structure & Id Plate Are In Good Condition	Closed	2023-11-23 00:00:00
26	All Lights, Indicators & Flashing Beacon Are Functional	Closed	2023-11-23 00:00:00
27	All Guards & Covers Are In Place & Free From Damage	Closed	2023-11-23 00:00:00
28	A Lockable Mechanism Has Been Fitted To The Isolator Switch	Closed	2023-11-23 00:00:00
29	All Steps, Walkways & Handrails Are In Place & Free From Damage	Closed	2023-11-23 00:00:00
30	Tyres Appear To Be Free From Sever Cuts & Damage	Closed	2023-11-23 00:00:00
31	Emergency Stop Button Is Operational	Closed	2023-11-23 00:00:00
32	Tyre Condition Report	Closed	2023-11-23 00:00:00
33	Pos 1 Mm Psi	Closed	2023-11-23 00:00:00
34	Pos 2 Mm Psi	Closed	2023-11-23 00:00:00
35	Pos 3 Mm Psi	Closed	2023-11-23 00:00:00
36	Pos 4 Mm Psi	Closed	2023-11-23 00:00:00
37	Change Engine Oil 27ltr	Closed	2023-11-23 00:00:00
38	Change Engine Oil Filter, Cup Open & Inspect	Closed	2023-11-23 00:00:00
39	inspect and clean cooler cores	Closed	2023-11-23 00:00:00
40	Take Oil Sample From Transmission	Closed	2023-11-23 00:00:00
41	Take Oil Sample From Front Diff	Closed	2023-11-23 00:00:00
42	Take Oil Sample From Rear Diff	Closed	2023-11-23 00:00:00
43	Take Oil Sample From Hydraulic Tank	Closed	2023-11-23 00:00:00
44	Change Hydraulic Oil Filter, Cup Open & Inspect	Closed	2023-11-23 00:00:00
45	Change Fuel/Water Separator Element	Closed	2023-11-23 00:00:00
46	Change Fuel Filter (No1) & Bleed Fuel System	Closed	2023-11-23 00:00:00
47	Clean Engine Breather	Closed	2023-11-23 00:00:00
48	replace fuel tank breather	Closed	2023-11-23 00:00:00
49	Change Fuel Filter (No2) And Bleed Fuel System	Closed	2023-11-23 00:00:00
50	adjust front axle wheel bearings	Closed	2023-11-23 00:00:00

Asset: GR504 - John Deer 670GP Grader - 79591D

Work Order: 430

Root Cause:

Description: 5500 hours service

VIN/SerialNo	Location			Priority	Fitter/s	Scheduled Start
		5487	22057	Routine service		2023-03-12

Item	Work Needed	Work Done	Extra	Status	Date Closed	Image
1	Check/Top Up Battery Electrolyte Level			Closed	2023-03-17 00:00:00	
2	Inspect Adjust V Belt Tension			Closed	2023-03-17 00:00:00	
3	Check/Top Up Coolant Levels			Closed	2023-03-17 00:00:00	
1	Check/Top Up Hydraulic Oil Level			Closed	2023-03-17 00:00:00	
	Check/Top Up Diff Oil Levels			Closed	2023-03-17 00:00:00	
	check auto greaser level and lines			Closed	2023-03-17 00:00:00	
	check air intake hoses			Closed	2023-03-17 00:00:00	
	Grease Drive Line Uiniversal Joints			Closed	2023-03-17 00:00:00	
	Check/Top Up Transmission Oil Level			Closed	2023-03-17 00:00:00	
0	Drain Water/Sediment From Fuel/Water Separator			Closed	2023-03-17 00:00:00	
1	Drain Water/Sediment From Fuel Tank Drain Plug On Left Hand Side			Closed	2023-03-17 00:00:00	
2	Machine Safety Inspection			Closed	2023-03-17 00:00:00	
3	A Fire Extinguisher Has Been Fitted To The Machine			Closed	2023-03-17 00:00:00	
4	The Fire Extinguisher Is Within Inspection Date			Closed	2023-03-17 00:00:00	
5	A Seat Belt Has Been Fitted To The Machine			Closed	2023-03-17 00:00:00	
6	The Seat Belt Is In Good Condition & Can Be Adjusted Correctly			Closed	2023-03-17 00:00:00	
7	The Operator'S Seat Is In Good Condition, Is Fully Adjustable & Secure			Closed	2023-03-17 00:00:00	
8	The Machine Service Brake System Passes The Stall Test			Closed	2023-03-17 00:00:00	
9	The Machine Parking/Emergency Brake System Passes The Stall Test			Closed	2023-03-17 00:00:00	
)	Reverse/Travel Alarm Is Fitted & Functions Correctly			Closed	2023-03-17 00:00:00	
1	The Steering System Is Responsive			Closed	2023-03-17 00:00:00	

22	The Emergency Steering System Functions When Actuated	Closed	2023-03-17 00:00:00
23	Cabin Glass Is Secure & Free From Damage	Closed	2023-03-17 00:00:00
24	No Active Fault Alarms Are Indiciated On The Monitor Panel	Closed	2023-03-17 00:00:00
25	Rops/Fops Structure & Id Plate Are In Good Condition	Closed	2023-03-17 00:00:00
26	All Lights, Indicators & Flashing Beacon Are Functional	Closed	2023-03-17 00:00:00
27	All Guards & Covers Are In Place & Free From Damage	Closed	2023-03-17 00:00:00
28	A Lockable Mechanism Has Been Fitted To The Isolator Switch	Closed	2023-03-17 00:00:00
29	All Steps, Walkways & Handrails Are In Place & Free From Damage	Closed	2023-03-17 00:00:00
30	Tyres Appear To Be Free From Sever Cuts & Damage	Closed	2023-03-17 00:00:00
31	Emergency Stop Button Is Operational	Closed	2023-03-17 00:00:00
32	Tyre Condition Report	Closed	2023-03-17 00:00:00
33	Pos 1 Mm Psi	Closed	2023-03-17 00:00:00
34	Pos 2 Mm Psi	Closed	2023-03-17 00:00:00
35	Pos 3 Mm Psi	Closed	2023-03-17 00:00:00
36	Pos 4 Mm Psi	Closed	2023-03-17 00:00:00
37	Change Engine Oil 27ltr	Closed	2023-03-17 00:00:00
38	Change Engine Oil Filter, Cup Open & Inspect	Closed	2023-03-17 00:00:00
39	inspect and clean cooler cores	Closed	2023-03-17 00:00:00
40	Take Oil Sample From Transmission	Closed	2023-03-17 00:00:00
41	Take Oil Sample From Front Diff	Closed	2023-03-17 00:00:00
42	Take Oil Sample From Rear Diff	Closed	2023-03-17 00:00:00
43	Take Oil Sample From Hydraulic Tank	Closed	2023-03-17 00:00:00
44	Change Hydraulic Oil Filter, Cup Open & Inspect	Closed	2023-03-17 00:00:00
45	Change Fuel/Water Separator Element	Closed	2023-03-17 00:00:00
46	Change Fuel Filter (No1) & Bleed Fuel System	Closed	2023-03-17 00:00:00
47	Clean Engine Breather	Closed	2023-03-17 00:00:00

















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Work Order	Description	\$ Created Date	Created Hrs	Created Kms	Completed	Priority	Fitter	/s	
1125	Circle wear part missing	03/11/2023			17/11/2023	To do when in workshop			Û
942	Blade slide adjustment	05/09/2023			17/11/2023	Minor defects			Û
672	Due for pm6000	03/07/2023			04/08/2023	Routine service			Û
642	6000 hours service	23/06/2023	5949	24612	04/07/2023	Routine service			Û
441	maintenance jobs	20/03/2023	5494	22106	26/05/2023				Û
440	broken swivel hub	20/03/2023	5494	22106	17/03/2023	Equipment breakdown	Jake K	elly	Û
430	5500 hours service	09/03/2023	5487	22057	17/03/2023	Routine service			⑪
361	5000 hours service	11/11/2022	4943	19413	23/11/2023	Routine service			Û
282	4500 hours service	09/08/2022	4448	16977	18/08/2022	Routine service			⑪

1178

TO BE HANDED IN WITH TIME SHEET

SCHEDULED I	MAINTENANC	E	JOHN J	DERRIZ
Date	1-10-21	Service Type	Unit/Rego Number	GRADER
Odometer/Hr Meter		Labour Hours	Unit/Rego Number Mechanic	RICHARD
Comments/Notes:			Position	Tread Depth
SARVICE	1000 425.			
RA SEAL	LH ST	RAR CYL		
RAPPIR E	GAUST LA	PAR CYL		
		epairs/Service Items to Be Co		
Completed By		Labour Hrs	Date	
Notes:				
10.000	-			

1470

TO BE HANDED IN WITH TIME SHEET

Date	6-7-22	Service Type		Unit/Rego Number	GR504					
Odometer/Hr Meter	4,299	Labour Hours		Mechanic Sam						
Comments/Notes: Change ful Change axel Change aver Change aver replaced of	filters filters filters filter	filtes plates + aud	shol	Position	Tread Depth					
1 pinua Ci		pairs/Service Items to		ee Below)						
REPAIR/SERV										
Requested By										
Details:	LIK AT	367840								
Completed By		Labour Hrs		Date						
Notes:										



Hitachi Construction Machinery (Australia) Pty Ltd



Unit/Vehicle No.: GR04 Comp Name: Hydraulic System

Unit Make: John Deere Comp Make: **Unit Model:** 670GP Comp Model: **Unit Serial No.:** 1DW670GPHJD691114 Comp Serial No.: Unit/Vehicle Site: Yamba **System Capacity:**

	Current Sample	Last Sample	Previous Sample	Previous Sample	Ca	ution	
SAMPLE STATUS							LEGEND Severe
LAB CHECK NO. TRACKING NUMBER	25186651						Abnormal
ANALYSIS NO.	10003372660						
SAMPLED DATE	10-Jun-19						(Caution
RECEIVED DATE	18-Jun-19						, IS
REPORTED DATE	19-Jun-19						Normal
MACHINE	Hrs 503						
OIL	Hrs						
OIL MAKE	Hy-Gard JDM J20						
OIL GRADE OIL ADDED	ISO 68						
OIL CHANGED	No						
FILTER	Hrs						LEGEND
FILTER CHANGED					Guideline	es	(gl) Guidelines (fr) Fluid Reference
Metals (ppm)							(*) No reference
Aluminium (Al)	1				0 - 10	(gl)	
Copper (Cu)	2				0 - 20	(gl)	
Chromium (Cr)	2				0 - 10	(gl)	
Iron (Fe)	3				0 - 70 0 - 12	(gl)	
Lead (Pb)	<1				0 - 12	(gl)	
Tin (Sn) Nickel (Ni)	<1 1				0 - 4	(gl) (gl)	
Contaminants and Addi					0 - 3	(91)	
Silicon (Si)	3				0 - 23	(gl)	
Boron (B)	7				6	(fr)	
Sodium (Na)	, <1				0 - 20	(gl)	
Potassium (K)	2				0 - 20	(gl)	
Phosphorus (P)	546				988	(fr)	
Molybdenum (Mo)	1				2	(fr)	
Magnesium (Mg)	1				102	(fr)	
Calcium (Ca)	75				3396	(fr)	
Zinc (Zn)	734				1152	(fr)	
Physical Tests							
Oxidation (Abs) (FTIR)	34.5				8.9	(fr)	
Viscosity (cSt,40°C)	60				59	(fr)	
Viscosity (cSt,100°C)	10.3				9.4	(fr)	
Viscosity Index (ASTM D2					140	(fr)	
PQ Index	<10				0 - 10	(gl)	
Water ppm (by KF)	130				0 - 750	(gl)	
Particle Count					40/47/44	"	
ISO 4406 Code					19/17/11 10 - 23	(fr)	
ISO Clean 4 Micron (c)					8 - 21	(gl)	
ISO Clean 6 Micron (c) ISO Clean 14 Micron (c)	 				6 - 16	(gl) (gl)	
130 Clean 14 Microff (C)					0 - 10	\9'/	

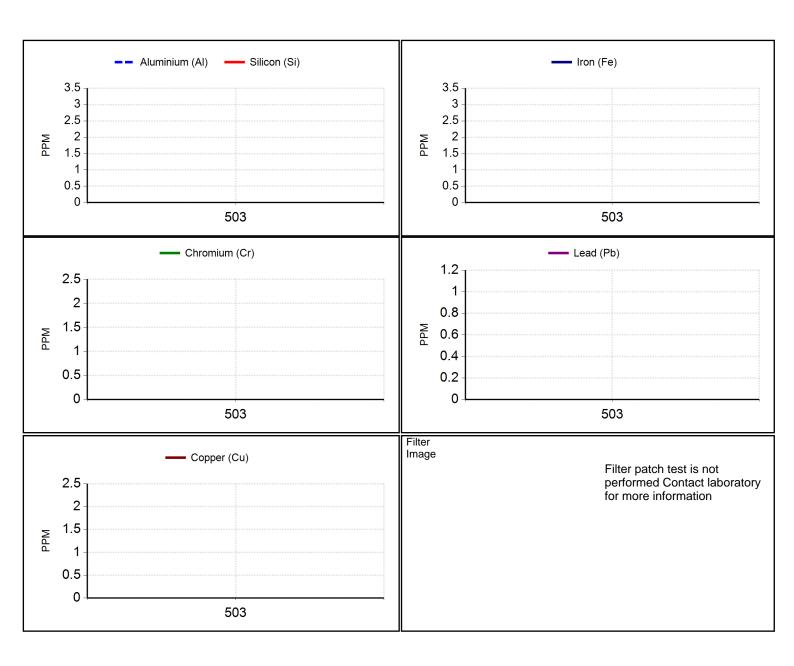
Please contact your local Hitachi outlet for further explanation on non-normal samples **DIAGNOSIS**

All wear levels appear within acceptable limits for first sample. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Viscosity within specified operating range. Action: Resample at next recommended interval to monitor and establish wear trend. NOTE: Advise check sampling procedure as sample contained visible dirt/debris.

PREVIOUS DIAGNOSIS



"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."



1491

TO BE HANDED IN WITH TIME SHEET

Date 15 - 8	22 Service Type	Unit/Rego Number	GR 504
Odometer/Hr Meter 4,480		Mechanic	Sam
Comments/Notes:		Position	Tread Depth
carry out 500m	Service		
change eng oil	filter		
Change full filters			
fill up grass pot			
	ering ram		
Details:			
Completed By	Labour Hrs	Date	
Notes:			

0789

TO BE HANDED IN WITH TIME SHEET

Date	16-1-20	Service Type	repair	Unit/Rego Number	G-18005
Odometer/Hr Meter	885	Labour Hours		Mechanic	Jahre/sam/13
Comments/Notes:	FIP GPS			Position	Tread Depth
	lèfair gli New ty	ease line res fitted	s. CHamph)11-	1-20	
REPAIR/SERV	Further Re	epairs/Service Iten -	ns to Be Complete	ed (See Below)	
Requested By	TOL ILLEGEO				
Details:					
			100		
Completed By		Labour Hrs		Date	
Notes:					
TVOICS.					

1066

TO BE HANDED IN WITH TIME SHEET

Date	17-9-20	Service Type	Soche	Unit/Rego Number	GR 504
Odometer/Hr Meter	1,549	Labour Hours		Mechanic	Jake
Comments/Notes:	change in change change clean cal clean cal	eng oil & F fund RHers Mir Filter	oils.	Position	Tread Depth
REPAIR/SERV				ed (dee below)	
Requested By					
Completed By		Labour Hrs		Date	
was on the court of the table of the court o					
Notes:					



Hitachi Construction Machinery (Australia) Pty Ltd



Unit/Vehicle No.: GR04 Comp Name: Automatic Transmission Unit Make: John Deere Comp Make:

Unit Model: 670GP Comp Model:
Unit Serial No.: 1DW670GPHJD691114 Comp Serial No.:
Unit/Vehicle Site: Yamba System Capacity:

	Current Sample	Last Sample	Previous Sample	Previous Sample	N	ormal	
SAMPLE STATUS							LEGEND Severe
LAB CHECK NO. TRACKING NUMBER	25185285						Abnormal
ANALYSIS NO.	10003372669						
SAMPLED DATE	10-Jun-19						Caution
RECEIVED DATE	18-Jun-19						
REPORTED DATE	18-Jun-19						Normal Normal
MACHINE Hr							
OIL Hr							
OIL MAKE	Hy-Gard						
OIL GRADE	SAE 10W30						
OIL ADDED							
OIL CHANGED	No						
FILTER Hr							LEGEND
FILTER CHANGED					Guidelin	ies	(gl) Guidelines
							(fr) Fluid Reference
Metals (ppm) Aluminium (AI)	3				0 - 19	(gl)	(*) No reference
Copper (Cu)	3 13				0 - 120	(gl)	
Chromium (Cr)	<1				0 - 9	(gl)	
Iron (Fe)	34				0 - 100	(gl)	
Lead (Pb)	<1				0 - 15	(gl)	
Tin (Sn)	<1				0 - 6	(gl)	
Nickel (Ni)	1				0 - 9	(gl)	
Contaminants and Additive							
Silicon (Si)	5				0 - 30	(gl)	
Boron (B)	<5				<5	(fr)	
Sodium (Na)	10				0 - 29 3	(gl)	
Potassium (K) Phosphorus (P)	2 989				997	(fr) (fr)	
Molybdenum (Mo)	1				<1	(fr)	
Magnesium (Mg)	, 81				102	(fr)	
Calcium (Ca)	3222				3467	(fr)	
Zinc (Zn)	1166				1111	(fr)	
Physical Tests							
Water (%) (FTIR)	<0.1				0 - 0.10	(gl)	
Viscosity (cSt,40°C)	44				60	(fr)	
PQ Index	<10				0 - 49	(gl)	
Oxidation (Abs) (FTIR)	13.4				8.8	(fr)	

DIAGNOSIS

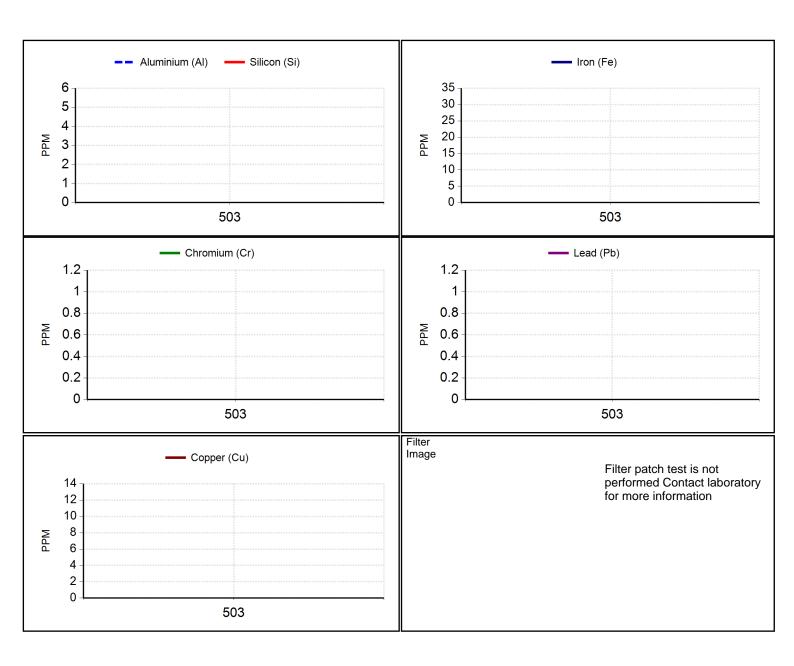
Please contact your local Hitachi outlet for further explanation on non-normal samples

All wear levels appear within acceptable limits for first sample. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Viscosity within specified operating range. Action: Resample at next recommended interval to monitor and establish wear trend.

PREVIOUS DIAGNOSIS



"This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report."





Hitachi Construction Machinery (Australia) Pty Ltd



Unit/Vehicle No.: GR04 Comp Name: Engine Single/Front

Unit Make:John DeereComp Make:Unit Model:670GPComp Model:Unit Serial No.:1DW670GPHJD691114Comp Serial No.:

Unit/Vehicle Site: Yamba System Capacity: Ltrs

LEGEND			Current Sample	Last Sample	Previous Sample	Previous Sample	Abı	normal	
LAB CHECK NO. 24383026 TRACKING NUMBER TRACKING NUMBER ANAL YSIS NO. 10003372704 SAMPLED DATE 10-Jun-19 REPORTED DATE 18-Jun-19 REPORT DATE 18	SAMPLE STATUS								
ANALYSIS NO. 10003372704 SAMPLED DATE 10-Jun-19 RECRIVED DATE 18-Jun-19 REPORTED DATE 18-Jun-19 REPORTED DATE 18-Jun-19 RACHINE 18 503 OIL Hrs 250 OIL MAKE Plus-50 II OIL GRADE SAE 15W40 OIL ADDED Ltrs OIL CHANGED Yes OIL CHANGED Yes FILTER 18 250 FILTER 19 250 Metals (ppm) Aluminium (AI) 3 0-30 (gl) Nickel (Ni) 1 0-0.25 (gl) Chomium (Cr) 1 1 Copper (Cu) 8 0-25 (gl) Iron (Fe) 12 Lead (Pb) -11 Lead (Pb) -11 Tin (Sn) -1 COntaminants and Additives (ppm) Silicon (Sl) 85 Sodium (Na) 4 Potassium (Na) 4 Potassium (Na) 4 Potassium (Na) 4 Potassium (Na) 262 August 264 (fr) Flad Reference (Phosphorus (P) 856 Molybdenum (Mo) 262 Magnesium (Mo) 734 Water (%5) (FTIR) < 0.01			24383026				5		
SAMPLED DATE 10-Jun-19 RECEIVED DATE 18-Jun-19 RECEIVED DATE			10003372704						
RECINED DATE 18-Jun-19									Caution
REPORTED DATE								0	
MACHINE Hrs 503 OIL MAKE Plus-50 II OIL MAKE Plus-50 II OIL GRADE SAE 15W40 OIL ADDED Ltrs OIL CHANGED Yes FILTER Hrs 250 FILTER Hrs 250 Metals (ppm) Aluminium (AI) 3 0-30 (gl) Filter Chornium (Cr) 1 1 Copper (Cu) 8 0-25 (gl) Chornium (Cr) 1 1 Copper (Cu) 8 0-25 (gl) Chornium (Cr) 1 1 Copper (Cu) 8 0-25 (gl) Chornium (Cr) 1 1 Copper (Cu) 0-50 (gl) Filter Chornium (Cr) 1 1 Copper (Cu) 0-50 (gl) Chornium (Cr) 1 1 Chornium (Cr									Normal
OIL Hrs 250 OIL MAKE Plus-50 II OIL ADDED Ltrs OIL CHANGED Yes FILTER Hrs 250 FILTER CHANGED Yes Guidelines (gl) Guidelines (r) No reference Metals (ppm) LEGEND (gl) Guidelines (r) No reference Metals (ppm)		Hrs							
OIL MAKE Plus-50 II OIL GRADE SAE 15W40 OIL ADDED Ltrs OIL CHANGED Yes FILTER Hrs 250 FILTER CHANGED Yes Calidelines FILTER CHANGED Yes Calidelines Metals (ppm) Turing (pm) LEGEND Metals (ppm) Ves LEGEND Nickel (NI) 1 0 - 4 (gl) (pr) Fluid Reference (*) No reference Chromium (Cr) 1 0 - 4 (gl) (pm)									
OIL GRADE SAE 15W40 OIL ADDED Ltrs OIL CHANGED Yes FILTER Hrs 250 FILTER CHANGED Yes Guidelines (ft) Fluid Reference (ft) Fluid Reference (ft) Fluid Reference (ft) Fluid Reference (ft) No reference Metals (ppm) Aluminium (AI) 3 0 - 30 (gl) (ft) Fluid Reference (ft) No reference (ft) Fluid Reference (f		1113							
OIL ADDED Ltrs OIL CHANGED Yes FILTER Hrs 250 FILTER CHANGED Yes Guidelines (r) Fluid Reference (r) Fluid Reference (r) Fluid Reference (r) Nickel (Ni) 0-30 (gl) Guidelines (r) Fluid Reference (r) No reference Aluminium (AI) 3 0-30 (gl) Version Aluminium (AI) 3 0-30 (gl) Version Nickel (Ni) 1 0-4 (gl) Version Version (r) No reference (r									
OIL CHANGED Yes FILTER Hrs 250 FILTER CHANGED Yes Guidelines ILEGEND (gl) Guidelines (r) Fluid Reference (r) Fluid Reference (r) No reference Metals (ppm) To 3 (gl) Use (r) Fluid Reference (r) No reference Mickel (Ni) 1 0 - 3 (gl) (r) No reference		Ltre	3AL 13VV40						
FILTER CHANGED Yes Register Yes Register Re		Lus	V						
Metals (ppm) Metals (ppm) Filt TER CHANGED Metals (ppm) Filt Tell (ppm)									
Metals (ppm) (fr) Fluid Reference (*) No ref		HIS							
Metals (ppm) Aluminium (Al) 3 0 - 30 (g) Nickel (Ni) 1 0 - 4 (g) Copper (Cu) 8 0 - 25 (g) Chromium (Cr) 1 0 - 10 (g) Iron (Fe) 12 0 - 50 (gl) Lead (Pb) <1	FILTER CHANGED		Yes				Guidelin	es	
Aluminium (AI) 3 0-30 (gI) Nickel (Ni) 1 0-4 (gI) Copper (Cu) 8 0-25 (gI) Chromium (Cr) 1 0-10 (gI) Iron (Fe) 12 0-50 (gI) Lead (Pb)	Metals (ppm)								
Nickel (Ni) 1 0 - 4 (gl) Copper (Cu) 8 0 - 25 (gl) Chromium (Cr) 1 0 - 10 (gl) Iron (Fe) 12 0 - 50 (gl) Lead (Pb) <1			3				0 - 30	(gl)	• •
Chromium (Cr) 1 1 0 - 10 (gl) Iron (Fe) 12 0 - 50 (gl) Lead (Pb)							0 - 4	(gl)	
Iron (Fe)	Copper (Ću)		8				0 - 25	(gl)	
Lead (Pb) <1									
Tin (Sn) <1 0-3 (gl) Contaminants and Additives (ppm) Silicon (Si) 6 0-21 (gl) Boron (B) 85 320 (fr) Sodium (Na) 4 0-30 (gl) Potassium (K) <1 0-30 (gl) Phosphorus (P) 856 877 (fr) Molybdenum (Mo) 262 244 (fr) Calcium (Ca) 1369 1283 (fr) Magnesium (Mg) 734 770 (fr) Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) <0.1									
Contaminants and Additives (ppm) Silicon (Si) 6 0-21 (gl) Boron (B) 85 320 (fr) Sodium (Na) 4 0-30 (gl) Potassium (K) -1 0-30 (gl) Phosphorus (P) 856 877 (fr) Molybdenum (Mo) 262 244 (fr) Calcium (Ca) 1369 1283 (fr) Magnesium (Mg) 734 770 (fr) Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) -0.1									
Silicon (Si) 6 0 - 21 (gl) Boron (B) 85 320 (fr) Sodium (Na) 4 0 - 30 (gl) Potassium (K) -1 0 - 30 (gl) Phosphorus (P) 856 877 (fr) Molybdenum (Mo) 262 244 (fr) Calcium (Ca) 1369 1283 (fr) Magnesium (Mg) 734 770 (fr) Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) <0.1							0 - 3	(gl)	
Boron (B) 85 320 (fr) Sodium (Na) 4 0 - 30 (gl) Potassium (K) -1 0 - 30 (gl) Phosphorus (P) 856 877 (fr) Molybdenum (Mo) 262 244 (fr) Calcium (Ca) 1369 1283 (fr) Magnesium (Mg) 734 770 (fr) Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) <0.1		tives (ppn							
Sodium (Na) 4 0 - 30 (gl) Potassium (K) <1									
Potassium (K) < 1									
Phosphorus (P) 856 877 (fr) Molybdenum (Mo) 262 244 (fr) Calcium (Ca) 1369 1283 (fr) Magnesium (Mg) 734 770 (fr) Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) <0.1 0 - 0.20 (gl)									
Molybdenum (Mo) 262 244 (fr) Calcium (Ca) 1369 1283 (fr) Magnesium (Mg) 734 770 (fr) Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) <0.1									
Calcium (Ca) 1369 1283 (fr) Magnesium (Mg) 734 770 (fr) Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) <0.1									
Magnesium (Mg) 734 770 (fr) Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) <0.1									
Zinc (Zn) 974 978 (fr) Physical Tests Water (%) (FTIR) <0.1 0 - 0.20 (gl)									
Physical Tests Water (%) (FTIR)									
Water (%) (FTIR) <0.1 0 - 0.20 (gl)			974				976	(11)	
			.0.1				0 0 20	(al)	
Viscosity (cSt,100°C) 13.9 15.6 (fr)	Soot (%) (FTIR)							(gl)	
PQ Index 17 0 - 10 (gl)									
Oxidation (Abs) (FTIR) 17.2 0 - 25 (gl)									
Sulphation (Abs) (FTIR) 17.2 0-30 (gl)									
Fuel (% by G.C.) <0.1 0 - 2 (gl)									
Total Base Number (FTIR) 9.3 3 - 15 (gl))							

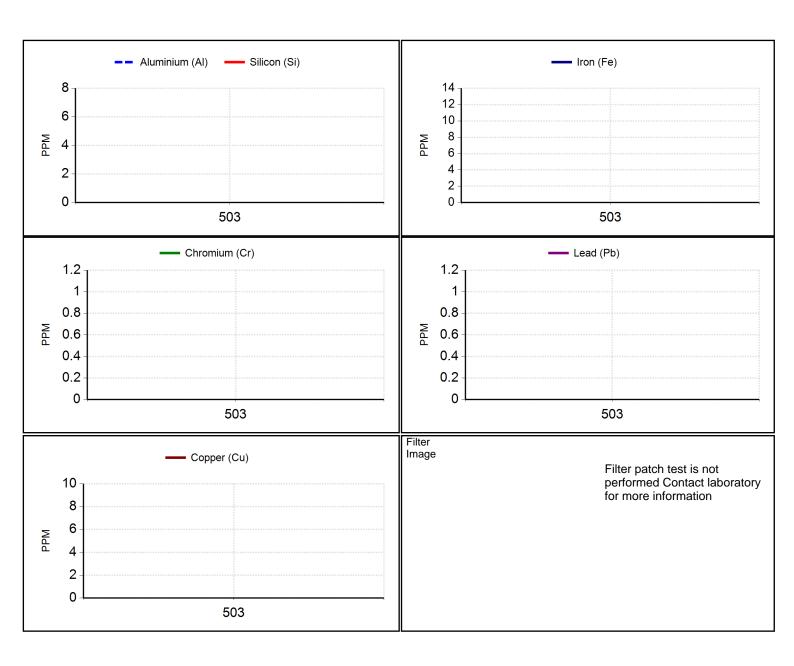
DIAGNOSIS Please contact your local Hitachi outlet for further explanation on non-normal samples

Wear levels lower than 8 micron appear satisfactory. However, PQ Index number (ferrous material) abnormally high. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Fuel dilution satisfactory. Viscosity within specified operating range. Action: As oil already changed and if visible metal/debris was acceptable, Check for excessive engine knock at stall speed. Resample at a reduced service interval to monitor and establish wear trend.

PREVIOUS DIAGNOSIS



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Hitachi Construction Machinery (Australia) Pty Ltd



Unit/Vehicle No.: GR04 Comp Name: Rear Differential

Unit Make:John DeereComp Make:Unit Model:670GPComp Model:Unit Serial No.:1DW670GPHJD691114Comp Serial No.:Unit/Vehicle Site:YambaSystem Capacity:

		Current Sample	Last Sample	Previous Sample	Previous Sample	Ab	normal	
SAMPLE STATUS								LEGEND Severe
LAB CHECK NO. TRACKING NUMBER		25169930				6		Abnormal
ANALYSIS NO.		10003372670						
SAMPLED DATE		16-Jun-19						(! Caution
RECEIVED DATE		18-Jun-19						
REPORTED DATE		18-Jun-19						Normal
MACHINE	Hrs	503						
OIL	Hrs							
OIL MAKE		Hy-Gard						
OIL GRADE		SAE 10W30						
OIL ADDED								
OIL CHANGED		No						
FILTER	Hrs	Not Applicable						LEGEND
FILTER CHANGED		1101719911000010				Guidelin	es	(gl) Guidelines
								(fr) Fluid Reference
Metals (ppm)		•				0 20	(ml)	(*) No reference
Aluminium (Al)		3				0 - 20 0 - 49	(gl)	
Copper (Cu) Chromium (Cr)		11 1				0 - 49 0 - 14	(gl) (gl)	
Iron (Fe)		802				0 - 749	(gi) (gl)	
Lead (Pb)		1				0 - 14	(gl)	
Tin (Sn)		1				0 - 20	(gl)	
Nickel (Ni)		1				0 - 5	(gl)	
Contaminants and Add	itives (pp	m)					10 /	
Silicon (Si)		, 5				0 - 30	(gl)	
Boron (B)		<5				<5	(fr)	
Sodium (Na)		5				0 - 50	(gl)	
Potassium (K)		1				0 - 14	(gl)	
Phosphorus (P)		979				997	(fr)	
Molybdenum (Mo)		2				<1	(fr)	
Magnesium (Mg)		89				102	(fr)	
Calcium (Ca)		3293				3467 1111	(fr)	
Zinc (Zn)		1155				1111	(fr)	
Physical Tests		٠٠ 1				0 - 0.10	(gl)	
Water (%) (FTIR) Viscosity (cSt,40°C)		<0.1 54				60	(gi) (fr)	
PQ Index		377				0 - 499	(II) (gl)	
Oxidation (Abs) (FTIR)		13.7				8.8	(gr)	
3/1001011 (/ 100) (1 THT)		10.7					V1	

DIAGNOSIS

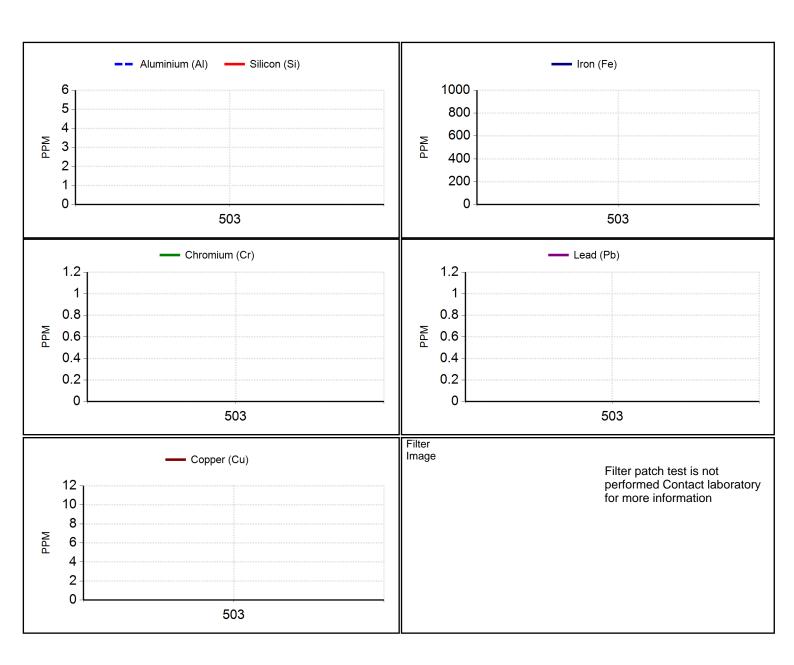
Please contact your local Hitachi outlet for further explanation on non-normal samples

Iron level abnormal. All other wear levels within limits. Silicon level (dirt/sealant material) satisfactory. Water content acceptable. Viscosity within specified operating range. Action: Drain oil from unit if not already done and evaluate wear metal debris. Check for any abnormal vibration or noise of this unit. Resample at a reduced service interval to further monitor.

PREVIOUS DIAGNOSIS



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Certificate of Analysis

18-Jun-19 19-Jun-19 Brisbane

16-Feb-20 30-Apr-20 30-Apr-20 Brisbane

18-Dec-20 22-Feb-21 22-Feb-21

DATE SAMPLED DATE RECEIVED DATE REPORTED TRIBOLOGY LABORATORY

Sydney

10003372660

10003508831 29661101

10204890199

41612927

SAMPLE NO. TRACKING NUMBER WORK ORDER NO. MACHINE

2018 2018 8102 8103

울분물

COMPONENT

OIL MAKE OIL MAKE OIL TYPE OIL GRADE OIL ADDED

John Deere Hy-Gard JDM ISO 68

John Deere John Deere Hy-Gard JDM J20C Hy-Gard JDM J20C ISO 68 ISO 68

503

950 950

Not Changed

Changed Not Changed

Changed Not Changed

200

音笔

FILTER FILTER CHANGED OIL CHANGED

*Aluminium (Al) *Copper (Cu) *Chromium (Cr)

Metals (ppm)

<u>~~~~~~</u>

2.0 950

UIN 0701C61

Hydraulic System

GR504 Unit No.

John Deere 670GP Model Make Unit

1DW670GPHJD691114 Serial No.

53.0 Ltrs Capacity

Yamba Site

Compartment:

Hydraulic System Serial No. Name Model Make

Customer

*Nickel (Ni) *Silicon (Si)

Tin (Sn)

*Lead (Pb)

*Iron (Fe)

DIAGNOSIS

contaminant levels acceptable. Viscosity within specified operating range. Action; As filters already changed and lower than 8 micron appear satisfactory. Oil cleanliness fifter debris was acceptable, advise check sampling rating exceeds considered recommended limit. Other Chromium wear rate elevated. All other wear levels Resample at a reduced service interval to further procedure for possible source of contamination. monitor.

accreditation covers the performance of this service. NATA Accreditation No.825, Site No. 2024, *NATA

Particle Count

Analysis undertaken on the sample as received Testing performed between Date Received and Date Reported unless otherwise specified





Caution

Right Solutions •



LEGEND





Authorized Signatory - Diagnostician: lawrence.ho

			_	
Contaminants and Additives (ppm)				
*Silicon (Si)	7	ო	m	
Boron (B)	\$	٠ <u>٠</u>	7	
*Sodium (Na)	⊽	_	. ₹	
*Potassium (K)	5	8	. 2	
*Phosphorus (P)	510	\$	546	
"Molybdenum (Mo)	₹	⊽	-	
*Magnesium (Mg)	7	.		
*Calcium (Ca)	83	100	75	
*Zinc (Zn)	714	707	734	
Physical Tests				
Water (%) (FTIR)	₹0.1	, 0,1	50.7	
Oxidation (Abs) (FTIR)	31.1	32.9	34.5	
Viscosity (cSt,40°C)	92	06	09	
PQ Index	<10	<10	5	

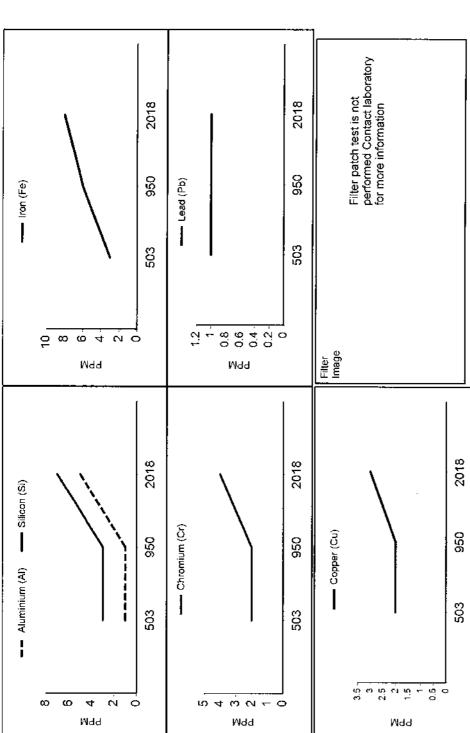
19/15/11 19 15 11 *ISO 4406 Code *ISO Clean 4 Micron (c) *ISO Clean 6 Micron (c) *ISO Clean 14 Micron (c)

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Australia & New Zealand

		,
Brisbane	Perth	
26 Shand Street Stafford QLD 4053 Phone: (07) 3326 6300	109 Bannister Road Canning Vale WA 6155 Phone: (08) 9232 0400	28€

Phone: (08) 9232 0400

Sydney

2/171-175 Newton Road Metherill Park NSW 2164 Phone: (02) 8786 3150

74 Seaview Road Lower Hutt Wellington NZ 5010 Phone: (64) 04 586 6202

Unit 2/6 Industrial Close Muswellprook NSW 2333 Phone: (02) 65413865 Unit 14/6 Industrial Close Muswellbrook

Wellington

Sparks, Nevada Europe Prague Kansas City, Kansas Portland, Oregon

Burlington, Ordanio Edmonton, Alberta Kuala Lumpur, Singapore Southeast Asia Canada Valley View, Ohio Phoenix, Arizona

International Locations

U.S.A.

Atlanta, Georgia

South America Santiago de Chile

All test methods are determined by laboratory location, and customer requirements. Methods can be made available on request by contacting the testing laboratory. Alarm limits are based on a combination of trend and OEM, client and/or ALS proprietary specifications. For more information please contact your testing laboratory.

UIN 0701C5D

Differential

GR504 Unit No.

1DW670GPHJD691114 John Deere 36.0 Ltrs 670GP Yamba Serial No. Capacity Model Make Unit Site

Compartment:

Differential Name Make

Serial No. Model

DIAGNOSIS

Please check recorded viscosity against requirements. Abrasive and other contaminant levels are acceptable. debris was acceptable, resample at a reduced service Action: As oil and filters already changed and if filter Copper level elevated. All other wear rates normal. interval to further monitor.

NATA Accreditation No.825. Site No. 2024, *NATA accreditation covers the performance of this service.

16-Jun-19 18-Jun-19 18-Jun-19 Brisbane John Deere Hy-Gard SAE 10W30 10003372670 25169930 503 10003508840 29661107 16-Feb-20 30-Apr-20 30-Apr-20 Brisbane 950 950 300 John Deere Hy-Gard SAE 10W30 10204890439 41612911 18-Dec-20 22-Feb-21 23-Feb-21 Sydney 2018 2018 1000 Valvoline Valvoline Jnknown 200 DATE SAMPLED DATE RECEIVED DATE REPORTED TRIBOLOGY LABORATORY 캶 불분분 SAMPLE NO. TRACKING NUMBER WORK ORDER NO. MACHINE COMPONENT OIL MAKE OIL TYPE OIL GRADE OIL ADDED FILTER

Not Changed

Not Changed

Changed

FILTER CHANGED OIL CHANGED

Certificate of Analysis

	ო	-	· -	802	1		_		ιΩ	₩.	, ro	•	626	2	88	3293	1155		₹0.1	54	377	13.7		_
	⊽	50	←	301	•	2	₹		ເນ	25	2	⊽	1057	₹	22	2951	1069		<0.1	4	96	5.7	(<u> </u>
	-	126		383	12	ო	-	(mdd	ທ	71	_	-	1002	ო	22	2711	1037		<0.1	55	93	5.7	(-	-
Metals (ppm)	*Aluminium (AI)	*Copper (Cu)	*Chromium (Cr)	*Iron (Fe)	*Lead (Pb)	*Tin (Sn)	*Nickel (Ni)	Contaminants and Additives (ppm)	*Silicon (Si)	Boron (B)	*Sodium (Na)	*Potassium (K)	*Phosphorus (P)	*Molybdenum (Mo)	*Magnesium (Mg)	*Calcium (Ca)	*Zinc (Zn)	Physical Tests	Water (%) (FTIR)	Viscosity (cSt,40°C)	PQ Index	Oxidation (Abs) (FTIR)		

Analysis undertaken on the sample as received. Testing performed between Date Received and Date Reported unless otherwise specified.





LEGEND





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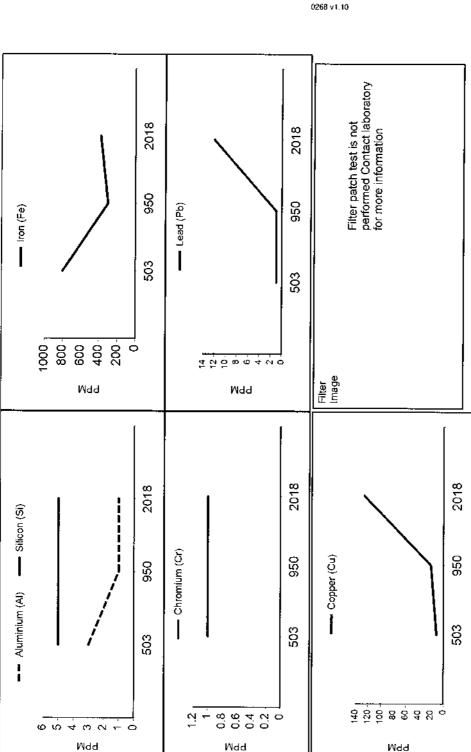
Authorized Signatory - Diagnostician: lawrence.ho

UIN 0701C5D









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Australia & New Zealand

26 Shand Street Stafford OLD 4053 Phone: (07) 3326 6300 Brisbane

Sydney

2/171-175 Newton Road Wetherill Park NSW 2164 Phone: (02) 8786 3150

Europe Prague Kansas City, Kansas Portland, Oregon Atlanta, Georgia

Burlington, Ortario Edmonton, Alberta Southeast Asia Canada Valley View, Ohio Phoenix, Arizona Sparks, Nevada

International Locations

U.S.A.

Kuala Lumpur, Singapore

South America Santiago de Chile

All test methods are determined by laboratory location, and customer requirements. Methods can be made avaitable on request by contacting the testing laboratory.

Alarm limits are based on a combination of trend and OEM, client and/or ALS proprietary specifications. For more information please contact your testing laboratory.

109 Bannister Road Canning Vale WA 6155 Phone: (08) 9232 0400

Wellington

Muswellbrook

74 Seaview Road Lower Hutt Wellington NZ 5010 Phone: (64) 04 586 6202 Unit 2/6 Industrial Close Muswellbrook NSW 2333 Phone: (02) 65413865 Unit 14/6 Industrial Close

UIN 0701C60

Final Drive

Unit No.	GR504
Unit:	
Make	John Deere

670GP

1DW670GPHJD691114 78.0 Ltrs Yamba Serial No. Capacity Site

Compartment:

Tandem Left Name Make

Model

Serial No.

DIAGNOSIS

present. Other contaminant levels acceptable. Viscosity within specified operating range. Action: Check all water resample at a reduced service interval to further moritor. NATA Accreditation No.825. Site No. 2024. "NATA accreditation covers the performance of this service. access points (breathers/seals). As oil already changed, All wear rates normal. Heavy concentration of water

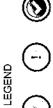
Certificate of Analysis

DATE SAMPLED	15-Dec-20	18-Feb-20	
	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
DAIE RECEIVED	72-Feb-21	3C-Apr-20	
DATE REPORTED	24-Feb-21	01-May-20	
TRIBOLOGY LABORATORY	Sydney	Brisbane	
SAMPLENO	10204890437	10003508847	
TRACKING NUMBER	41612906	29661085	
WORK ORDER NO.			
	2018	950	
COMPONENT	2018	950	
	2018	6 550	
HAAKII	open open	- Charles	
OF LYPE	Hy-Gard	Hy-Gard JUM J20C	
	SAE 10W30	SAE 10W30	
FILTER	Not Applicable		
FILTER CHANGED			
OIL CHANGED	Changed	Not Changed	
Metals (nom)			
*Aluminition (Al)	57	7	
) (7'	
Copper (Cu)	ກ	۵	
*Chromium (Cr)	~	₩.	
*Iron (Fe)	167	93	
"Lead (Pb)	+	₹	
*Tin (Sn)		_	
*Nickel (Ni)	⊽	•	
Contaminants and Additives (ppm)			
Boron (B)	۰ ۲۰ ۲۰	٧.	
Sodium (Na)	, e	7 -	
(C)	7 1	t ·	
Fotassium (K)			
"Phosphorus (P)	937	985	
*Molybdenum (Mo)	46	26	
"Magnesium (Mg)	95	96	
*Calcium (Ca)	3112	3305	
Zinc (Zn)	1122	1125	
Physical Tests			
10 (CILL)		0 *	
	0.0	n: l	
Viscosity (cst.40°C)	/9	7.9	
	148	194	
Oxidation (Abs) (FT(R)	11.5	12.1	
	•		
))	

Analysis undertaken on the sample as received. Testing performed between Date Received and Date Reported unless otherwise specified.









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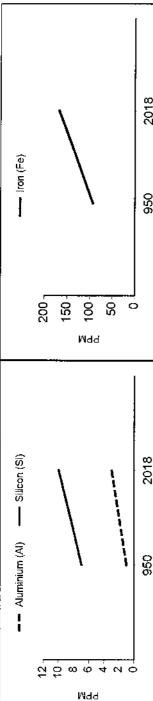
Authorized Signatory - Diagnostician: Antonio. Colengelo

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UIN 0701C60

10204890437



-- Chromium (Cr)

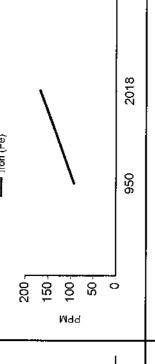
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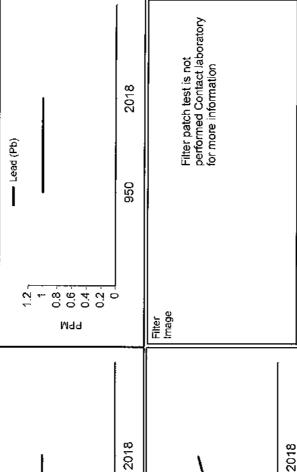
4

0.2

0.4

Mdd





Copper (Cu)

950

0268 v1.10

This analysis report is dependent upon the accurate completion of the sample submission sheet and correct sampling techniques as advised. The analysis is intended as an aid only in predicting mechanical wear and should not be regarded as a substitute for proper servicing or mechanical inspection. The company does not accept any liability whatsoever in respect of any loss or damage (including loss of profits, economic or other consequential loss or damage) however caused which may arise directly, or indirectly, as a result of the matters referred to in this analysis report.

950

0 0

 ∞ ဖ 4

Mdd

Australia & New Zealand

Perth 26 Shand Street Stafford QLD 4053 Phone: (07) 3326 6300 Brisbane

2/171-175 Newton Road Watherill Park NSW 2164 Phone: (02) 8786 3150

Atlanta, Georgia Portland, Oregon

Valley View, Ohio Kansas City, Kansas Phoenix, Arizona Sparks, Nevada Europe

Kuala Lumpur, Singapore

South America Santiago de Chile

Burlington, Ontario Edmonton, Alberta Southeast Asia Canada

International Locations

All test methods are determined by laboratory location, and customer requirements. Methods can be made available on request by contacting the testing laboratory.

Alarm limits are based on a combination of trend and OEM, client and/or ALS proprietary specifications. For more information please contact your testing laboratory.

Sydney 109 Bannister Road Canning Vale WA 6155 Phone: (08) 9232 0400

Wellington

Muswellbrook

74 Seaview Road Lower Hutt Wellington NZ 5010 Phone: (64) 04 586 6202 Unit 2/6 Industrial Close Muswelbrook NSW 2333 Phone: (02) 65413865 Unit 1A/6 Industrial Close

Prague

UIN 0701C60

Final Drive

GR504 Unit No.

1DW670GPHJD691114 John Deere 78.0 Ltrs 670GP Yamba Serial No. Capacity Model Make Unit: Site

Compartment:

Tandem Left Name Model Make

Serial No.

DIAGNOSIS

present. Other contaminant levels acceptable. Viscosity within specified operating range. Action: Check all water resample at a reduced service interval to further moritor. NATA Accreditation No.825. Site No. 2024. "NATA accreditation covers the performance of this service. access points (breathers/seals). As oil afready changed, All wear rates normal. Heavy concentration of water

Certificate of Analysis

		Sel minere of Animy Sis	
DATE SAMPLED	15-Dec-20	18-Feb-20	
DATE RECEIVED	22-Eeb-21	30-4-06-20	
DATE REPORTED	24-Feb-21	00-120 01-May-20	
TRIBOLOGY LABORATORY	Sydney	Frishane	
SAMPLE NO. TRACKING NUMBER	10204890437 41612906	10003508847 29661085	
	2018	950	
COMPONENT	2018	950	
	2018	950	
OIL MAKE	John Deere	John Deere	
OIL TYPE	Hy-Gard	Hy-Gard JDM J20C	
	004001 3000	מאמו שאמי	
FILTER Hrs	Not Applicable		
		May Channed	
	200	naficularity to the	
Metals (ppm) *Aluminium (Al)	m	₹	
*Copper (Cu)	တ	· 60	
*Chromium (Cr)	~	▽	
*Iron (Fe)	167	93	
*Lead (Pb)	τ	₹	
*Tin (Sn)	ᠸ '	.	
*Nickel (Ni)			
Contaminants and Additives (ppm)			
*Silicon (Si)	9	~	
Boron (B)	Ą	\$	
*Sodium (Na)	က	4	
*Potassium (K)	•	•	
*Phosphorus (P)	937	985	
*Molybdenum (Mo)	46	56	
*Magnesium (Mg)	95	96	
*Calcium (Ca)	3112	3305	
*Zinc (Zn)	1122	1125	
Physical Tests			
Water (%) (FTIR)	0.5	1,0	
Viscosity (cSt,40°C)	29	62	
	148	194	
Oxidation (Abs) (FTIR)	11.5	12.1	
	>		
	})	

Analysis undertaken on the sample as received. Testing performed between Date Received and Date Reported unless otherwise specified.







LEGEND



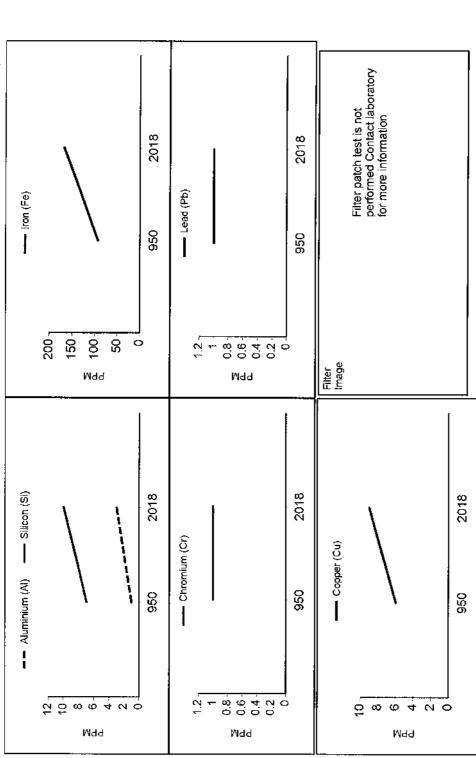
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Authorized Signatory - Diagnostician: Antonio. Colengelo

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10204890437



0268 v1.10

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Sydney

Kansas City, Kansas Phoenix, Arizona Europe Prague Atlanta, Georgia Portland, Oregon

Sparks, Nevada

Burlington, Ontario Edmonton, Alberta Canada International Locations Valley View, Ohio

Kuala Lumpur, Singapore Southeast Asia South America

Santiago de Chile

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