WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

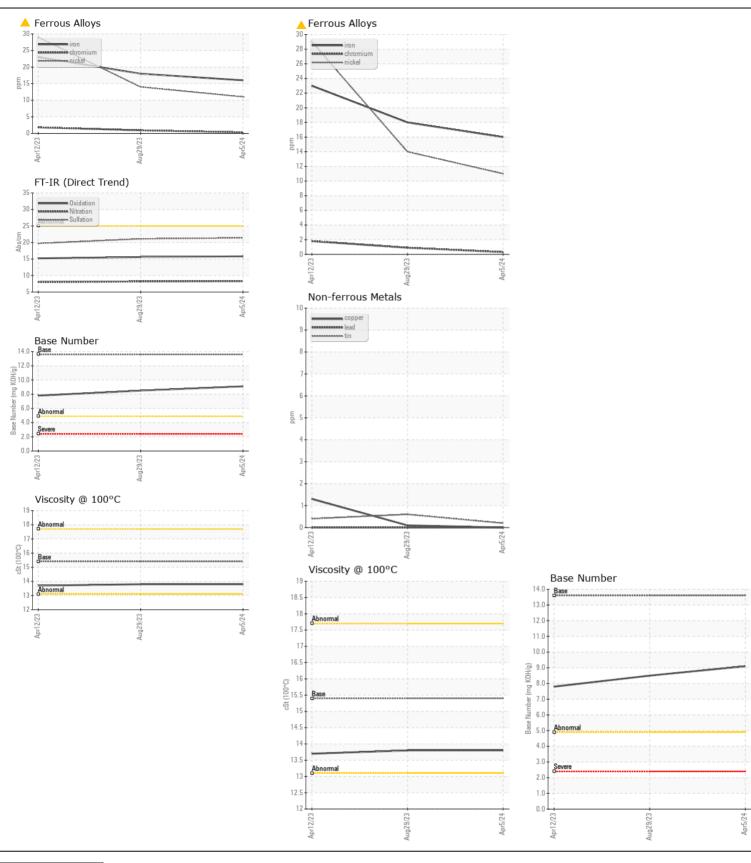


[05W45742]

JOHN DEERE 672GP 1DW672GPEMF712470

Diesel Engine

RECOMMENDATION							
RECUMINENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0210963	JR0184187	JR0166636
	Sample Date		Client Info		05 Apr 2024	29 Aug 2023	12 Apr 2023
	Machine Age	hrs	Client Info		2969	2464	1966
	Oil Age	hrs	Client Info		505	0	1966
	Filter Age	hrs	Client Info		505	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	16	18	23
	Chromium	ppm	ASTM D5185m	>11	<1	<1	2
Valve wear is indicated. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<u>▲</u> 11	<u> </u>	<u>^</u> 29
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	6	3	<1
	Lead	ppm	ASTM D5185m	>26	0	0	0
	Copper	ppm	ASTM D5185m	>26	0	<1	1
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	6	8
	Potassium	ppm	ASTM D5185m	>20	2	1	<1
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.2	8.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.1	19.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	1	1
The DN recult indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		290	267	254
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		259	251	258
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m		825	876	845
	Calcium	ppm	ASTM D5185m		1448	1469	1489
	Phosphorus	ppm	ASTM D5185m		955	930	912
	Zinc	ppm	ASTM D5185m		1108	1160	1166
			A OTAL DELOE		2650	0004	0110
	Sulfur	ppm	ASTM D5185m		3650	3894	3148
	Oxidation	Abs/.1mm	*ASTM D7414		15.8	15.6	15.2
		Abs/.1mm		13.6			







Certificate L2367

Laboratory Sample No. Unique Number : 10970012

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0210963 Lab Number : 06145204

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

: 10 Apr 2024 : 11 Apr 2024

: 13 Apr 2024 - Don Baldridge

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (703)631-8500 F: (703)631-4715 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)