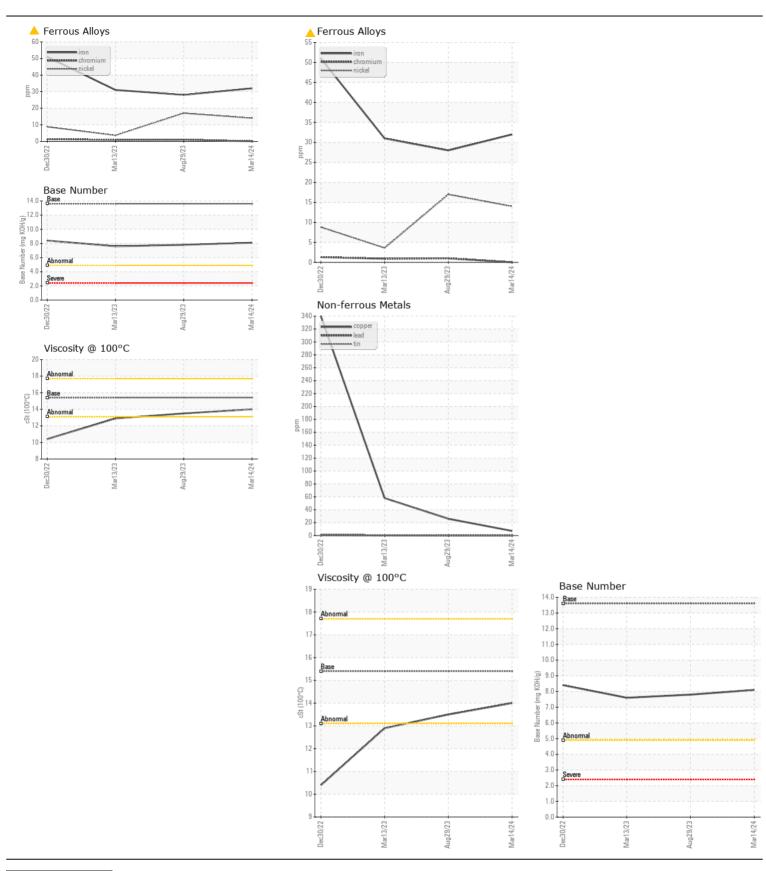
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

[W50515]

JOHN DEERE 300G 1FF300GXPNF732032

Component Diesel Engine							
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	GAL)						
RECOMMENDATION 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.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0179688	JR0164325	JR0159806
	Sample Date		Client Info		14 Mar 2024	29 Aug 2023	13 Mar 2023
	Machine Age	hrs	Client Info		1932	1475	1046
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	MARGINAL
WEAR	Iron	ppm	ASTM D5185m	>51	32	28	31
	Chromium	ppm	ASTM D5185m	>11	0	1	<1
Valve wear is indicated. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	1 4	<u> </u>	4
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	1	1	2
	Lead	ppm	ASTM D5185m	>26	0	0	<1
	Copper	ppm	ASTM D5185m	>26	7	26	△ 58
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 22	7	8	9
CONTAMINATION	Potassium	ppm	ASTM D5185m		0	o <1	0
There is no indication of any contamination in the oil.	Fuel	ppm		>2.1	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.6	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.4	10.4
	Sulfation	Abs/.1mm	*ASTM D7415		23.2	22.7	24.8
	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
ELUID CONDITION			AOTM DE CO			4	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	4	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		118	136	84
	Barium	ppm	ASTM D5185m		0	0	0
	Managanasa	ppm	ASTM D5185m		233	259	222
	Manganese	ppm	ASTM D5185m		<1 795	2	
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		795 1593	860 1509	707 1417
	Phosphorus	ppm	ASTM D5165III		887	880	728
	Zinc	ppm	ASTM D5185m		1049	1110	874
	Sulfur	ppm	ASTM D5185m		3283	3309	2569
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	3263 17.4	17.3	20.9
	Base Number (BN)				8.1	7.8	7.6
	Visc @ 100°C	cSt	ASTM D2030		14.0	13.5	12.9
	¥100 @ 100 O	001	, (O I WI D440	10.7	17.0	10.0	12.0

Contact/Location: DAVID ZIEG - JAMASH







Laboratory Sample No.

Lab Number : 06122081

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0179688

Unique Number : 10936232

Received **Tested** Diagnosed

: 19 Mar 2024 : 19 Mar 2024

: 21 Mar 2024 - Don Baldridge

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Test Package : CONST (Additional Tests: TBN) Contact: DAVID ZIEG To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292