



WEAR CONTAMINATION **FLUID CONDITION**

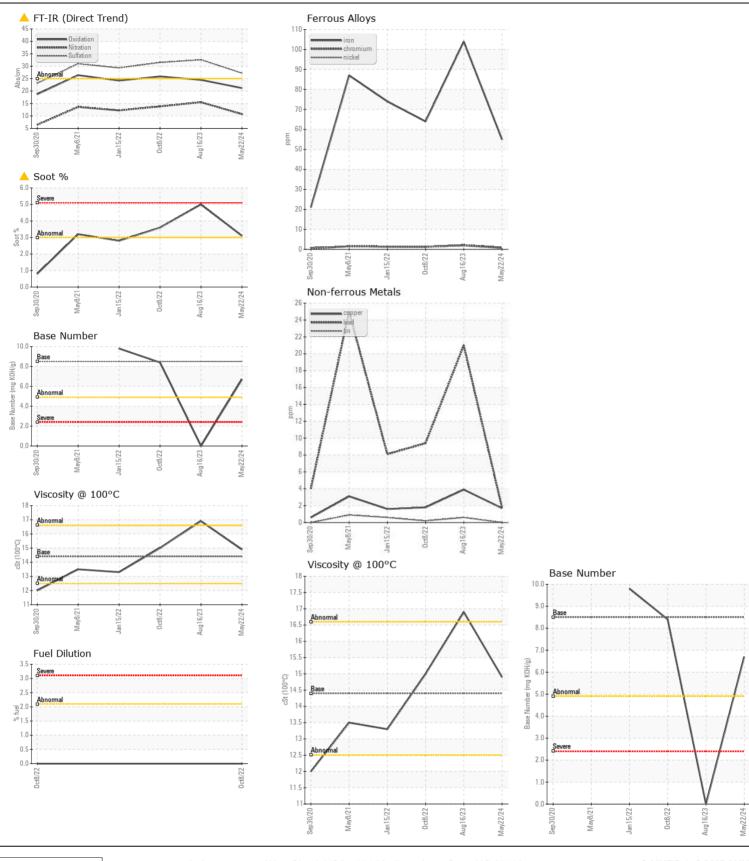
NORMAL ABNORMAL NORMAL



Machine Id

John Deere 650J 650J-3 (S/N 1T0650JXVBD204237) Diesel Engine

DIESEL ENGINE OIL SAE 15W4	10 (GAL)				.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TLY0002443		TLY0001259
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		22 May 2024	16 Aug 2023	08 Oct 2022
	Machine Age	hrs	Client Info		12097	11607	10754
	Oil Age	hrs	Client Info		11607	853	500
	Filter Age	hrs	Client Info		11607	853	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	nnm	ASTM D5185m	<u>-51</u>	55	<u> </u>	<u>^</u> 64
WEAN	Chromium	ppm	ASTM D5185m		<1	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	2	1
	Titanium	ppm	ASTM D5185m	75	0	0	0
	Silver	ppm	ASTM D5185m	~3	0	<1	0
	Aluminum	ppm	ASTM D5185m		5	10	6
	Lead	ppm	ASTM D5185m		2	21	9
	Copper	ppm	ASTM D5185m		2	4	2
	Tin	ppm	ASTM D5185m		0	<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	0.00		AOTM DEADE				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	8	8
There is an abnormal amount of solids and carbon present in the oil.	Potassium	ppm	ASTM D5185m		0	0 <1.0	<1
	Fuel	%	ASTM D3524	>2.1	<1.0		<1.0
	Water		WC Method	>0.21	NEG NEG	NEG NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844	. 2	MEG ▲ 3.1	5	▲ 3.6
	Nitration	Abs/cm	*ASTM D7644	>20	10.7	15.5	13.8
	Sulfation	Abs/.1mm	*ASTM D7024		27.2	32.6	31.5
	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		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		45	30	34
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	56	66	50
	Manganese	ppm	ASTM D5185m	450	<1	1	<1
	Magnesium	ppm	ASTM D5185m		585	818	556
	Calcium	ppm	ASTM D5185m		1989	1736	1714
	Phosphorus	ppm	ASTM D5185m		881 1051	952	773
	Zinc Sulfur	ppm	ASTM D5185m		1051	1190 3270	973 2871
	Oxidation	ppm Abs/.1mm	*ASTM D5185m		3129 21.2	24.5	25.9
	Base Number (BN)				6.7	△ 0.0	8.4
	Visc @ 100°C	cSt	ASTM D2090		14.9	▲ 16.9	15.0
	1100 @ 100 0	001	, 10 I WI DTTO	17.7	1-7.0		10.0







Report Id: GAIREIMAR [WUSCAR] 06193545 (Generated: 05/30/2024 17:49:30) Rev: 1

Laboratory Sample No. Unique Number : 11050297

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06193545

: TLY0002443

Received **Tested**

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 29 May 2024 : 30 May 2024

: 30 May 2024 - Jonathan Hester Diagnosed

Test Package : CONST (Additional Tests: FuelDilution, TBN)

Certificate L2367 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.

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