WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

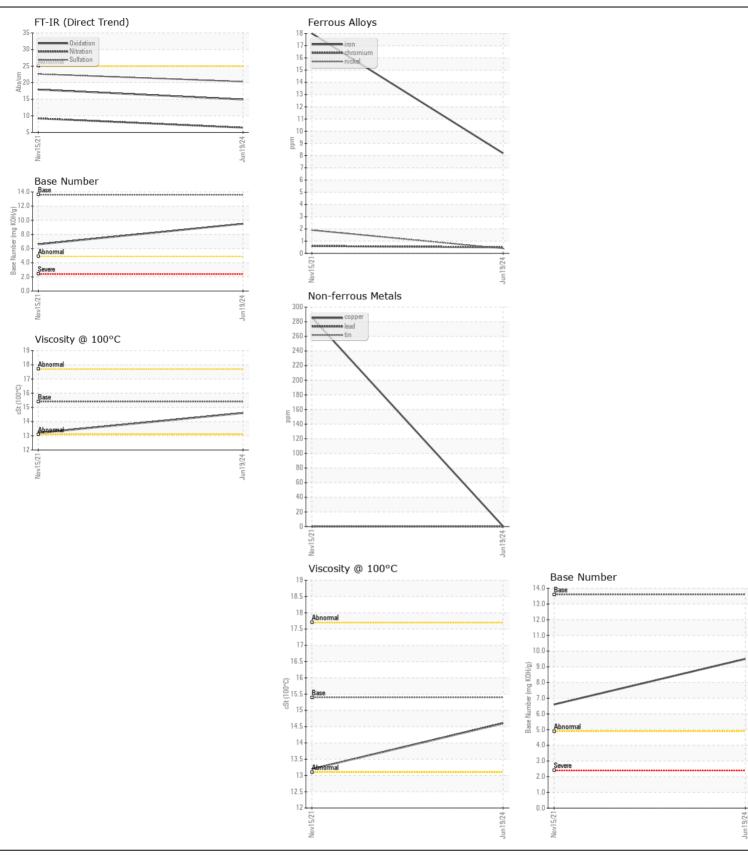
Machine Id

JOHN DEERE 748L 1DW748LBVLF707417

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WE0007537	WE0000698	
	Sample Date		Client Info		19 Jun 2024	15 Nov 2021	
	Machine Age	hrs	Client Info		7919	2509	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	8	18	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	<1	2	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m	>31	4	6	
	Lead	ppm	ASTM D5185m	>26	0	<1	
	Copper	ppm	ASTM D5185m	>26	<1	<u>^</u> 286	
	Tin	ppm	ASTM D5185m	>4	0	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	10	6	
SONTAMINATION	Potassium	ppm	ASTM D5185m		2	27	
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		- <1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	9.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	22.6	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	3	
	Boron	ppm	ASTM D5185m	- 0 1	254	74	
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	
	Molybdenum	ppm	ASTM D5185m		260	11	
	Manganese	ppm	ASTM D5185m		0	1	
	Magnesium	ppm	ASTM D5185m		844	47	
	Calcium	ppm	ASTM D5185m		1364	2455	
	Phosphorus	ppm	ASTM D5185m		927	1050	
	Zinc	ppm	ASTM D5185m		1096	1160	
	Sulfur	ppm	ASTM D5185m		3092	2738	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	17.9	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.5	6.6	
	Visc @ 100°C	cSt	ASTM D445	15.4	14.6	13.2	







Laboratory Sample No.

: WE0007537 Lab Number : 06216592 Unique Number : 11089456

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jun 2024 **Tested**

Diagnosed

: 24 Jun 2024 : 24 Jun 2024 - Wes Davis

WARRIOR TRACTOR AND EQUIPMENT - MONROEVILLE 66 INDUSTRIAL PARK DR MONROEVILLE, AL

US 36460 Contact: SCOTT WILLIAMSON

swilliamson@warriortractor.com T: (251)575-7111 F:

Test Package : CONST (Additional Tests: 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.

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