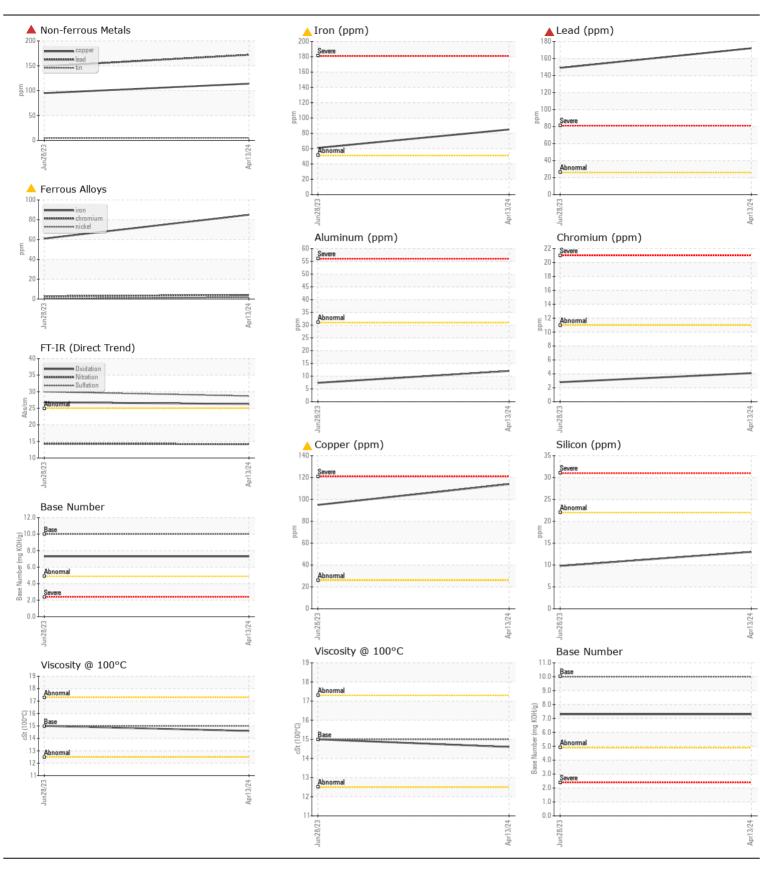
WEAR CONTAMINATION **FLUID CONDITION**

SEVERE NORMAL NORMAL

Machine Id

JOHN DEERE 650 404213

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VE		- /					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		VCP438751	VCP406794	
	Sample Date		Client Info		13 Apr 2024	28 Jun 2023	
	Machine Age	hrs	Client Info		1893	1581	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				SEVERE	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>51	<u>▲</u> 85	<u></u> 61	
	Chromium	ppm	ASTM D5185m	>11	4	3	
Bearing and/or bushing wear is indicated. Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m	>5	2	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>31	12	7	
	Lead	ppm	ASTM D5185m	>26	172	1 49	
	Copper	ppm	ASTM D5185m	>26	<u> </u>	<u> </u>	
	Tin	ppm	ASTM D5185m	>4	<u>^</u> 5	<u> </u>	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	13	10	
	Potassium	ppm	ASTM D5185m	>20	7	6	
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1.1	1.2	
	Nitration	Abs/cm	*ASTM D7624	>20	14.2	14.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.7	30.0	
	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	9	5	
LOID CONDITION	Boron	ppm	ASTM D5185m		24	23	
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.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		200	163	
	Manganese	ppm	ASTM D5185m		3	3	
	Magnesium	ppm	ASTM D5185m		824	618	
	Calcium	ppm	ASTM D5185m	2057	2898	2216	
	Phosphorus	ppm	ASTM D5185m		1530	1047	
	Zinc	ppm	ASTM D5185m	1223	1871	1371	
	Sulfur	ppm	ASTM D5185m		4667	3670	
	Oxidation	Abs/.1mm	*ASTM D7414		26.3	26.8	
	Base Number (BN)		ASTM D2896		7.3	7.3	
	Date Halliber (DIV)	ing itoring	. 10 1111 D2000	10		7.0	





Certificate L2367

Laboratory Sample No.

: VCP438751 Lab Number : 06154041

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

Tested Unique Number : 10989464 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

Received : 19 Apr 2024 : 22 Apr 2024

: 23 Apr 2024 - Don Baldridge

ALTA EQUIPMENT COMPANY 5151 DR MARTIN LUTHER KING BLVD FORT MYERS, FL US 33905

Contact: TODD LARK tlark@altaequipfl.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.

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

F: (239)481-3302