WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

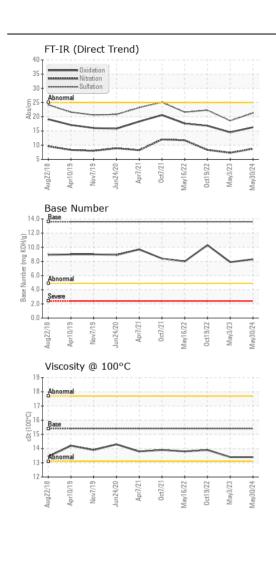
Machine Id

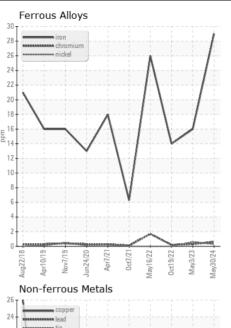
JOHN DEERE 1T0310SLHGF295648

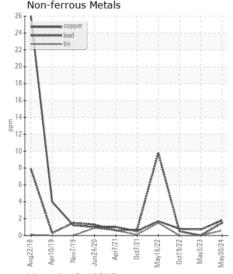
Diesel Engine

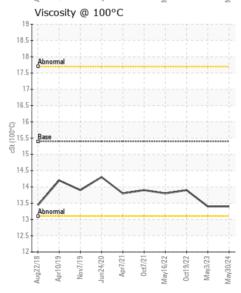
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (13 QTS)

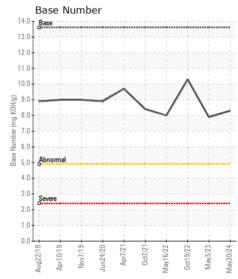
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217999	JR0173089	JR014665
	Sample Date		Client Info		30 May 2024	03 May 2023	19 Oct 202
	Machine Age	hrs	Client Info		2631	2348	2208
	Oil Age	hrs	Client Info		283	140	2208
	Filter Age	hrs	Client Info		283	140	2208
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	29	16	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	6	3	3
	Lead	ppm	ASTM D5185m	>26	2	0	<1
	Copper	ppm	ASTM D5185m	>26	2	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	7	7
	Potassium	ppm	ASTM D5185m	>20	2	1	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.3	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	18.6	22.3
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	1	0
	Boron	ppm	ASTM D5185m		292	278	243
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		<1	0	0
	Molybdenum	ppm	ASTM D5185m		267	239	246
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		814	858	777
	Calcium	ppm	ASTM D5185m		1428	1429	1393
	Phosphorus	ppm	ASTM D5185m		968	933	894
	Zinc	ppm	ASTM D5185m		1122	1124	1059
	Sulfur	ppm	ASTM D5185m		3502	3769	3410
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	14.5	16.8
	Base Number (BN)		ASTM D2896		8.3	7.9	10.3













Laboratory Sample No. Unique Number : 11059577

Lab Number : 06197454

: JR0217999

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

Tested Diagnosed

: 03 Jun 2024 : 04 Jun 2024

: 04 Jun 2024 - Wes Davis

US 20109-2668 Contact: BRANDON

NPL CONSTRUCTION

MANASSAS, VA

7611 COPPERMINE DR

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)

Report Id: NPLMAN [WUSCAR] 06197454 (Generated: 06/05/2024 04:19:59) Rev: 1

T: F: