WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

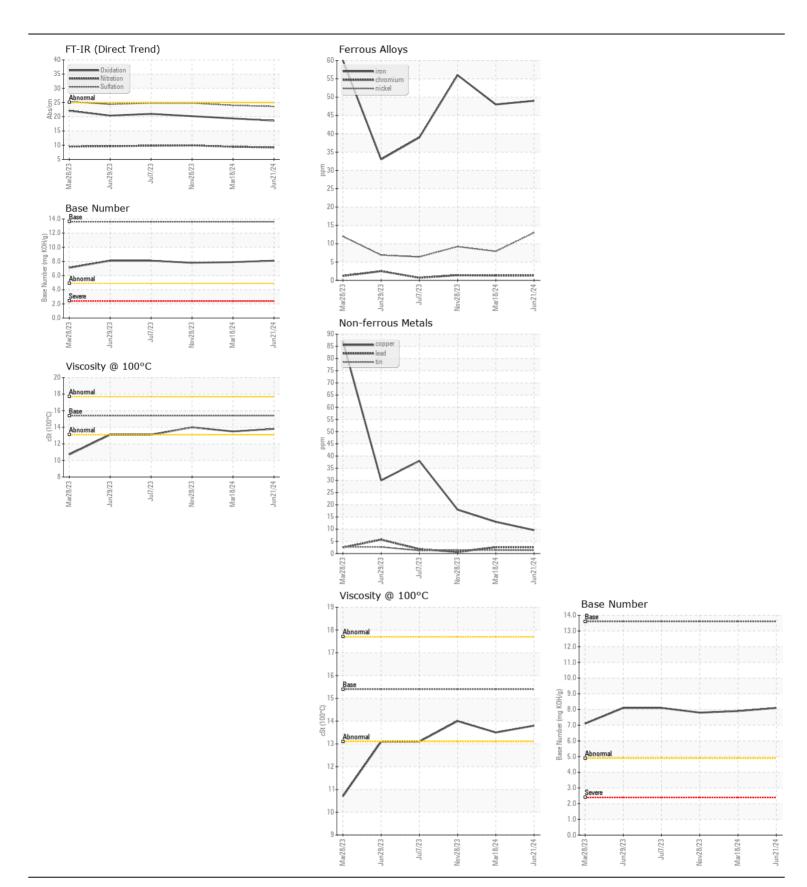
[05W47452]

JOHN DEERE PM061215

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 QTS)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2					-,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218257	JR0208325	JR0192471
	Sample Date		Client Info		21 Jun 2024	18 Mar 2024	28 Nov 2023
	Machine Age	hrs	Client Info		2537	2045	1509
	Oil Age	hrs	Client Info		492	1477	568
	Filter Age	hrs	Client Info		492	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	49	48	<u>^</u> 56
WEAR	Chromium	ppm	ASTM D5185m		1	1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		13	8	9
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	\3	<1	0	<1
	Aluminum	ppm	ASTM D5185m		5	5	6
	Lead	ppm	ASTM D5185m		3	3	<1
	Copper	ppm	ASTM D5185m		10	13	18
	Tin	ppm	ASTM D5185m		1	1	1
	Vanadium	ppm	ASTM D5185m	77	<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal		*Visual	NONE	NONE	NONE	
<u></u>	Tellow Metal	scalar	Visuai	INOINL	NONE	INOINL	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		11	11	13
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	2	2
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.4	9.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	24.0	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	NORMI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	2	3
	Boron	ppm	ASTM D5185m		135	115	95
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		2	0	0
	Molybdenum	ppm	ASTM D5185m		257	217	243
	Manganese	ppm	ASTM D5185m		1	1	<1
	Magnesium	ppm	ASTM D5185m		784	723	786
	Calcium	ppm	ASTM D5185m		1462	1708	1452
	Phosphorus	ppm	ASTM D5185m		747	895	894
		ppm	ASTM D5185m		1029	1110	1100
	ZITIC	The first of the					
	Zinc Sulfur	mag	ASTM D5185m		2547	3158	2833
	Sulfur	ppm Abs/.1mm	*ASTM D5185m	>25	2547 18.6	3158 19.4	2833
		Abs/.1mm	*ASTM D7414		2547 18.6 8.1	3158 19.4 7.9	2833 20.2 7.8







Certificate L2367

Report Id: FITWINVA [WUSCAR] 06219537 (Generated: 06/28/2024 02:08:33) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0218257 Lab Number : 06219537 Unique Number : 11097734

Received **Tested**

: 25 Jun 2024 Diagnosed

: 26 Jun 2024 : 26 Jun 2024 - Wes Davis

FITZGERALD EXCAVATING PO BOX 2168

WINCHESTER, VA US 22604

Contact: Service Manager

Test Package : CONST (Additional Tests: TBN) 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)

Submitted By: TECHNICIAN ACCOUNT

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