



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD F550 V106
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (13 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0115413	JR0066197	JR0066103
Sample Date		Client Info		22 Mar 2022	18 Nov 2021	10 Aug 2021
Machine Age	mls	Client Info		64688	59533	54508
Oil Age	mls	Client Info		5135	19856	14831
Filter Age	mls	Client Info		5135	5025	4952
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	15	22	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	5	7	0
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	1	2	1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

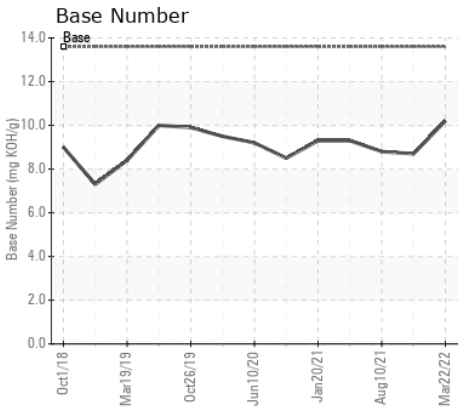
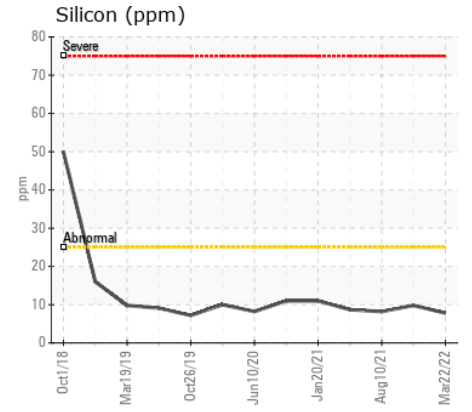
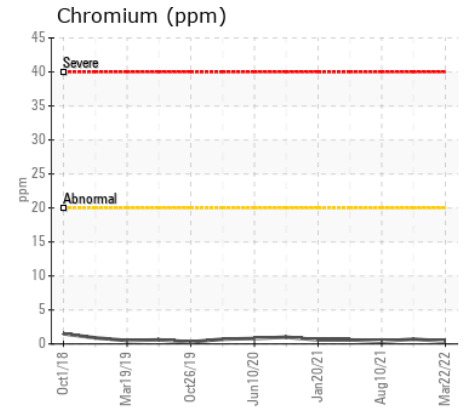
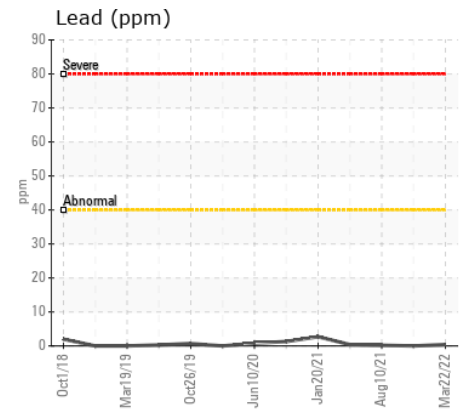
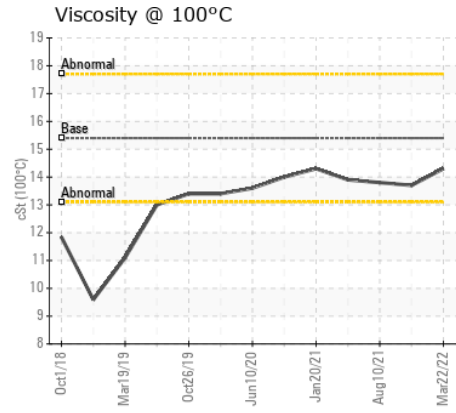
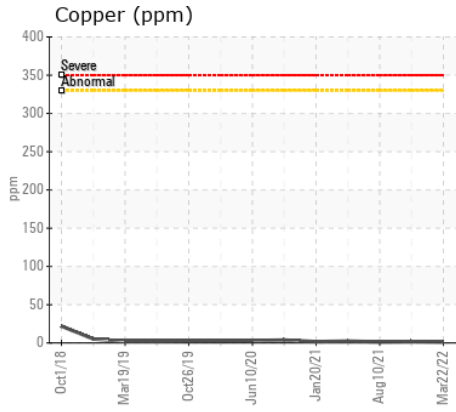
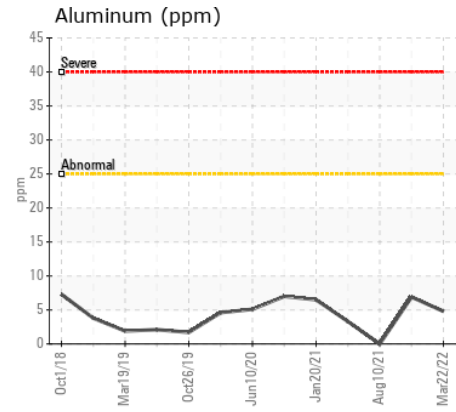
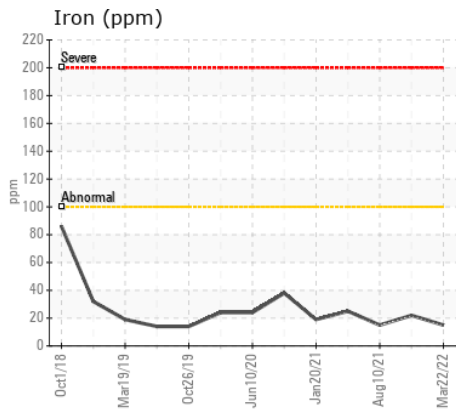
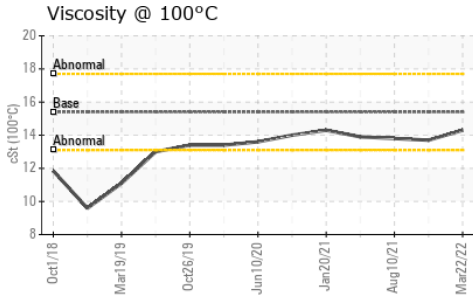
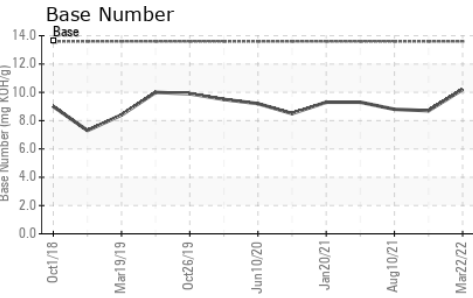
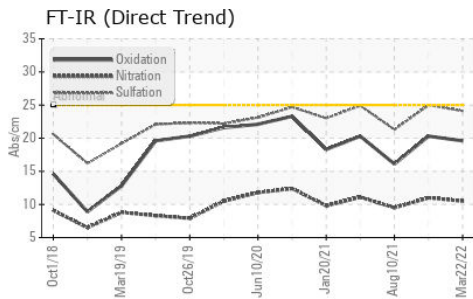
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	10	8
Potassium	ppm	ASTM D5185m	>20	0	5	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.5	11	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.1	25	21.3
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	8	7
Boron	ppm	ASTM D5185m		196	100	210
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		234	230	245
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		809	853	760
Calcium	ppm	ASTM D5185m		1472	1655	1554
Phosphorus	ppm	ASTM D5185m		915	800	897
Zinc	ppm	ASTM D5185m		1061	955	1015
Sulfur	ppm	ASTM D5185m		2805	3357	2583
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	20.3	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.2	8.7	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.7	13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0115413 **Received** : 23 Mar 2022
Lab Number : 05499524 **Tested** : 24 Mar 2022
Unique Number : 9903761 **Diagnosed** : 24 Mar 2022 - Wes Davis
Test Package : MOBCE (Additional Tests: TBN)

MATTHEWS CONSTRUCTION
 127 GRAYSON RD
 ROCK HILL, SC
 US 29732
 Contact: Tad Clinton
 tclinton@matthewsconstructionco.com
 T: (803)207-5607
 F:

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)