



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 3 - Norton [146629]
Machine Id
JOHN DEERE 135G 1FF135GXAJF501208
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0044782	LEC0019584	LEC0010968
Sample Date		Client Info		08 Jan 2024	06 May 2021	20 Mar 2020
Machine Age	hrs	Client Info		1949	996	490
Oil Age	hrs	Client Info		953	506	490
Filter Age	hrs	Client Info		953	506	490
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	8	9	13
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	2	0	3
Lead	ppm	ASTM D5185m	>26	0	<1	<1
Copper	ppm	ASTM D5185m	>26	4	6	15
Tin	ppm	ASTM D5185m	>4	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

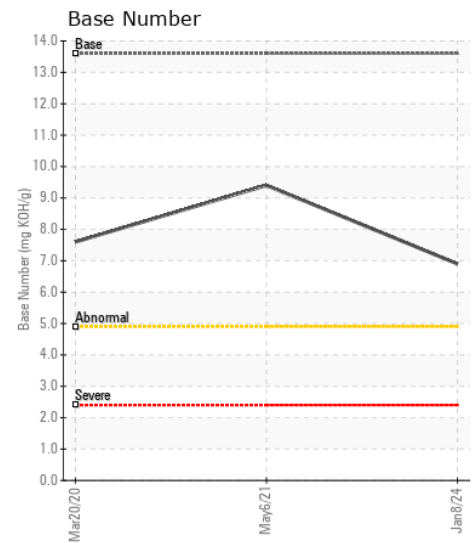
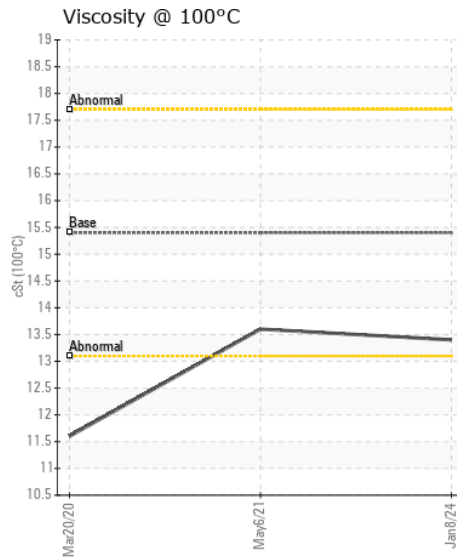
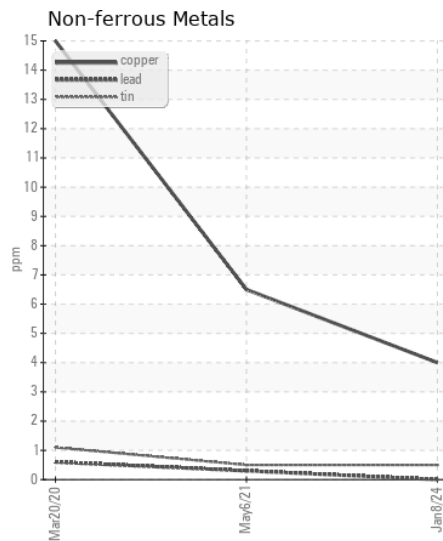
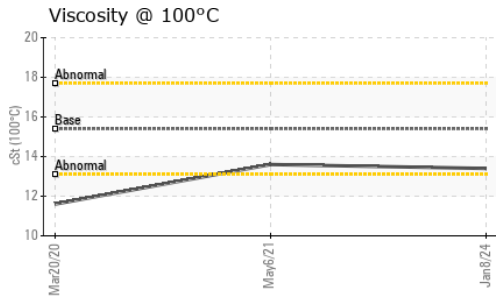
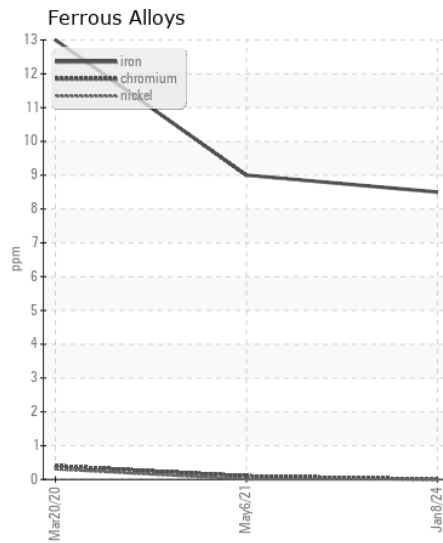
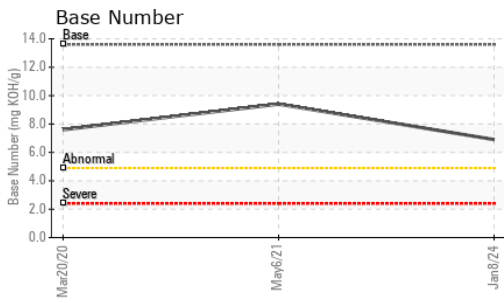
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	6	10	24
Potassium	ppm	ASTM D5185m	>20	4	<1	5
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	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.1	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	23.6	18.2
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	>0.21	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	>31	3	<1	4
Boron	ppm	ASTM D5185m		156	272	152
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		47	246	32
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		158	716	103
Calcium	ppm	ASTM D5185m		2011	1693	2491
Phosphorus	ppm	ASTM D5185m		952	921	972
Zinc	ppm	ASTM D5185m		1150	1043	1061
Sulfur	ppm	ASTM D5185m		3270	2627	2511
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	16.8	11
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.9	9.4	7.6
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.6	11.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044782 **Received** : 10 Jan 2024
Lab Number : 06056513 **Diagnosed** : 11 Jan 2024
Unique Number : 10822462 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: TBN)

US FOREST SERVICE
 200 SYCAMORE ST
 ELKINS, WV
 US 26241
 Contact: SERVICE MANAGER

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)

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F: