LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 3 - Norton [140465]
Machine Id
JOHN DEERE 350G 1FF350GXAKF814122
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The copper level is abnormal. Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

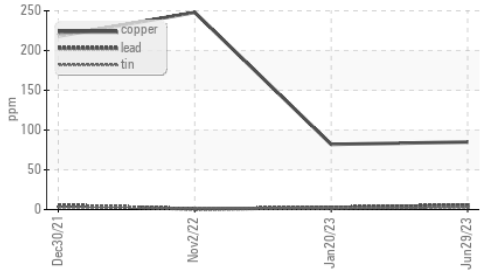
There is no indication of any contamination in the oil.

FLUID CONDITION

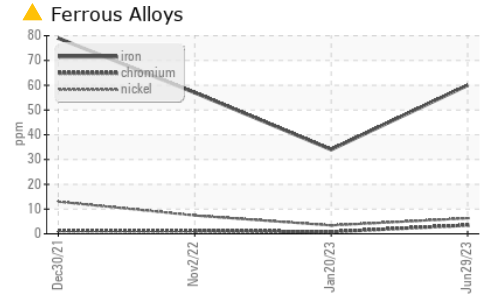
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041048	LEC0038843	LEC0034290
Sample Date		Client Info		29 Jun 2023	20 Jan 2023	02 Nov 2022
Machine Age	hrs	Client Info		1519	0	929
Oil Age	hrs	Client Info		590	0	492
Filter Age	hrs	Client Info		590	0	492
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	▲ 60	34	57
Chromium	ppm	ASTM D5185m	>11	4	<1	1
Nickel	ppm	ASTM D5185m	>5	6	3	7
Titanium	ppm	ASTM D5185m		2	0	0
Silver	ppm	ASTM D5185m	>3	2	0	0
Aluminum	ppm	ASTM D5185m	>31	18	4	4
Lead	ppm	ASTM D5185m	>26	6	2	<1
Copper	ppm	ASTM D5185m	>26	▲ 85	▲ 82	▲ 248
Tin	ppm	ASTM D5185m	>4	3	1	2
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	9	8	7
Potassium	ppm	ASTM D5185m	>20	58	2	4
Fuel	%	ASTM D3524	>2.1	<1.0	0.3	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.7	8.3	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	21.3	24.1
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
Sodium	ppm	ASTM D5185m	>31	5	0	2
Boron	ppm	ASTM D5185m		129	245	198
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		227	253	247
Manganese	ppm	ASTM D5185m		3	<1	2
Magnesium	ppm	ASTM D5185m		831	833	823
Calcium	ppm	ASTM D5185m		1517	1567	1578
Phosphorus	ppm	ASTM D5185m		785	894	879
Zinc	ppm	ASTM D5185m		1024	1142	1045
Sulfur	ppm	ASTM D5185m		3109	3442	3610
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	15.9	18.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	9.7	9.7
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.6	13.0

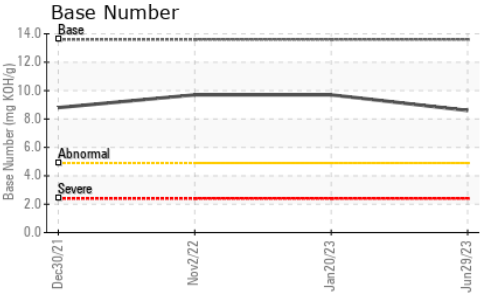
Non-ferrous Metals



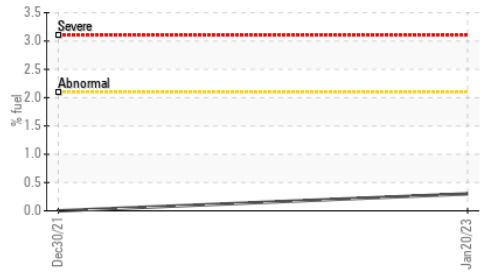
Ferrous Alloys



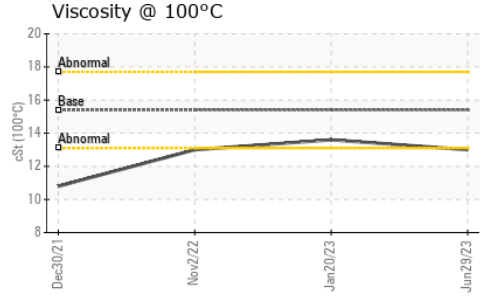
Base Number



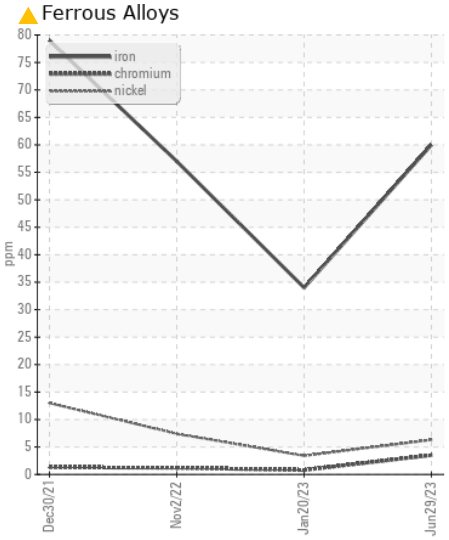
Fuel Dilution



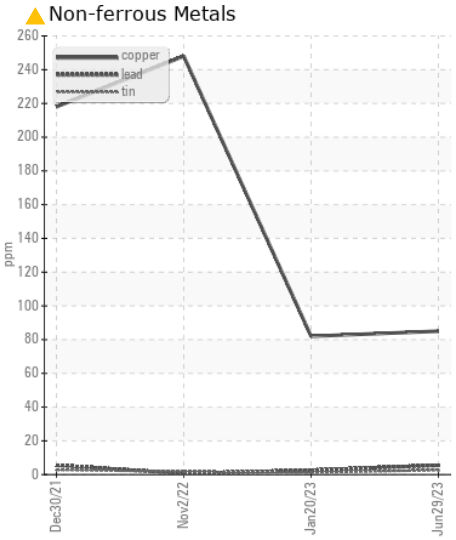
Viscosity @ 100°C



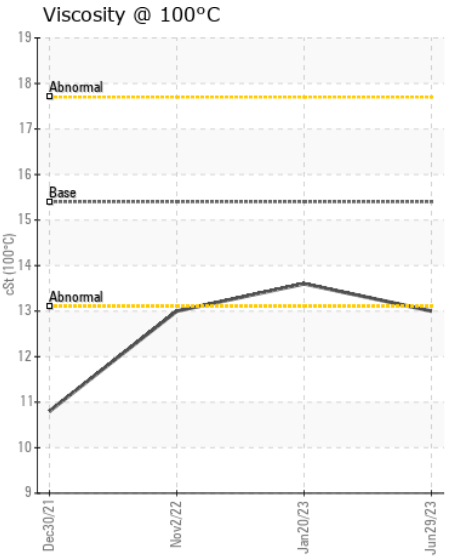
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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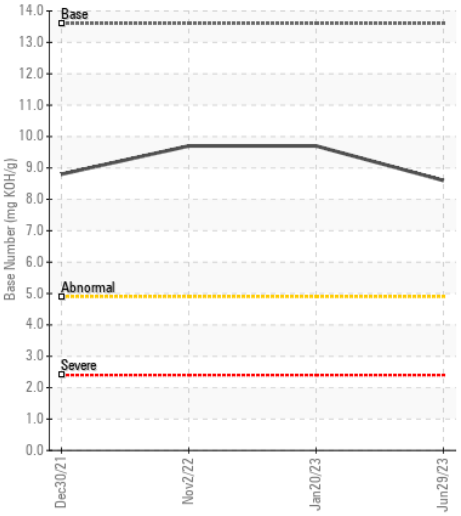

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041048
Lab Number : 05888880
Unique Number : 10539363
Test Package : CONST (Additional Tests: FuelDilution, TBN)

Received : 03 Jul 2023
Tested : 05 Jul 2023
Diagnosed : 05 Jul 2023 - Don Baldridge

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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