LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 350G 1FF350GXCJF812424
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 iron level has decreased, but is still abnormal. Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

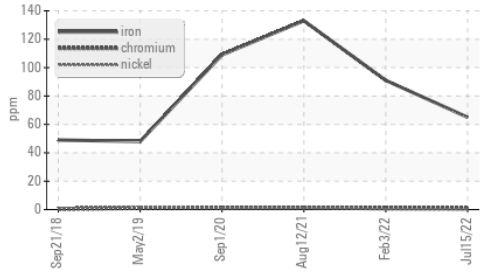
There is no indication of any contamination in the oil.

FLUID CONDITION

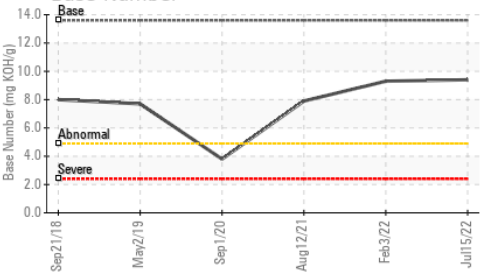
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0032973	LEC0028350	LEC0022870
Sample Date		Client Info		15 Jul 2022	03 Feb 2022	12 Aug 2021
Machine Age	hrs	Client Info		3151	2620	2024
Oil Age	hrs	Client Info		531	596	651
Filter Age	hrs	Client Info		0	596	651
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	▲ 65	▲ 91	▲ 133
Chromium	ppm	ASTM D5185m	>11	<1	2	2
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>31	4	5	3
Lead	ppm	ASTM D5185m	>26	<1	1	1
Copper	ppm	ASTM D5185m	>26	4	7	11
Tin	ppm	ASTM D5185m	>4	<1	1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	8	10	11
Potassium	ppm	ASTM D5185m	>20	5	3	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	0.4	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.8	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	24.1	22.4
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	<1	3	3
Boron	ppm	ASTM D5185m		177	141	182
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		267	260	278
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		729	884	808
Calcium	ppm	ASTM D5185m		1444	1546	1539
Phosphorus	ppm	ASTM D5185m		840	871	848
Zinc	ppm	ASTM D5185m		1015	1079	1036
Sulfur	ppm	ASTM D5185m		3156	2555	2378
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	17.9	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.4	9.3	7.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.1	13.0

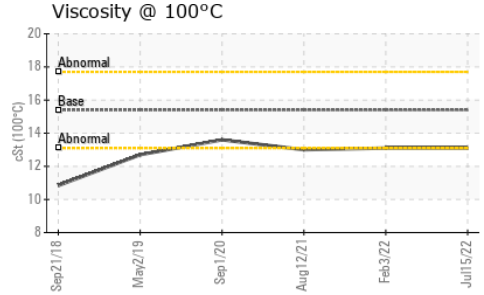
Ferrous Alloys



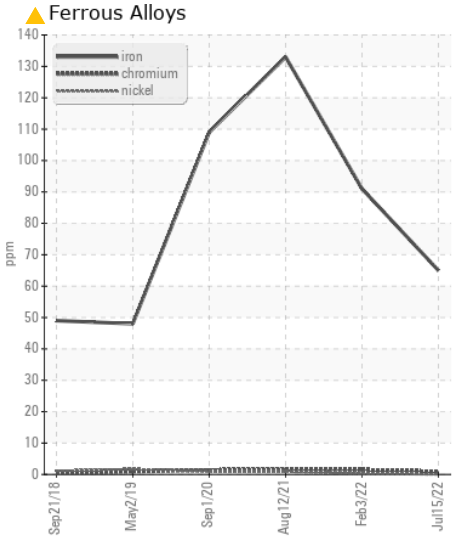
Base Number



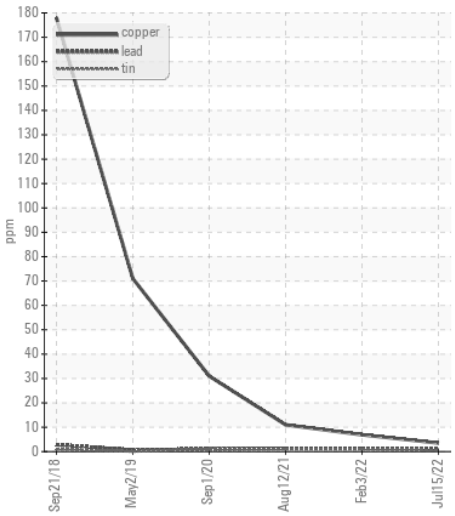
Viscosity @ 100°C



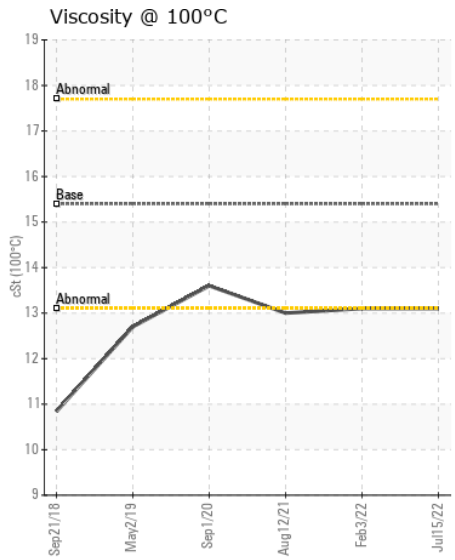
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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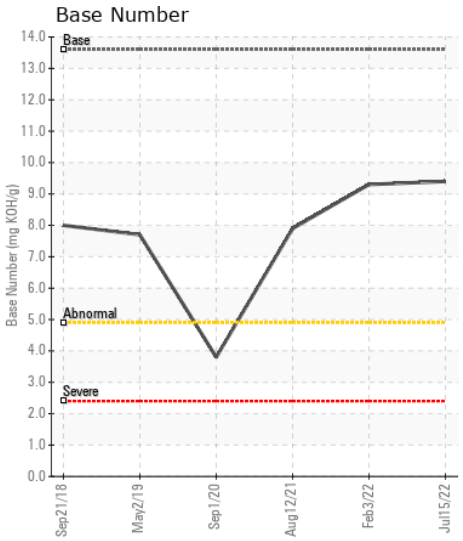

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0032973
Lab Number : 05594597
Unique Number : 10059077
Test Package : CONST (Additional Tests: TBN)

Received : 19 Jul 2022
Tested : 20 Jul 2022
Diagnosed : 20 Jul 2022 - 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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