LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 2 - Beaver [RO#144411]
Machine Id
JOHN DEERE 85G 1FF085GXENJ023628
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (3 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

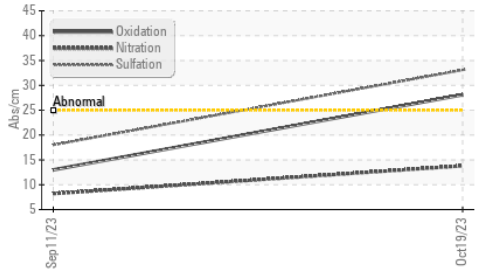
There is no indication of any contamination in the oil.

FLUID CONDITION

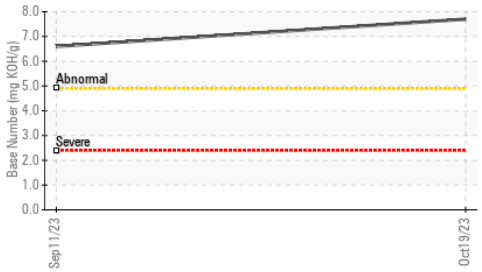
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0043607	LEC0042226	---
Sample Date		Client Info		19 Oct 2023	11 Sep 2023	---
Machine Age	hrs	Client Info		568	517	---
Oil Age	hrs	Client Info		51	517	---
Filter Age	hrs	Client Info		51	517	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>51	26	51	---
Chromium	ppm	ASTM D5185m	>11	1	1	---
Nickel	ppm	ASTM D5185m	>5	0	1	---
Titanium	ppm	ASTM D5185m		96	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	3	3	---
Lead	ppm	ASTM D5185m	>26	17	<1	---
Copper	ppm	ASTM D5185m	>26	2	8	---
Tin	ppm	ASTM D5185m	>4	<1	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>!20	19	▲ 49	---
Potassium	ppm	ASTM D5185m	>20	4	▲ 184	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	13.8	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.1	18.0	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>31	2	11	---
Boron	ppm	ASTM D5185m		75	191	---
Barium	ppm	ASTM D5185m		0	2	---
Molybdenum	ppm	ASTM D5185m		18	154	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		622	25	---
Calcium	ppm	ASTM D5185m		2557	2322	---
Phosphorus	ppm	ASTM D5185m		1348	712	---
Zinc	ppm	ASTM D5185m		1698	877	---
Sulfur	ppm	ASTM D5185m		4345	3088	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.1	13.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	6.6	---
Visc @ 100°C	cSt	ASTM D445		15.6	11.0	---

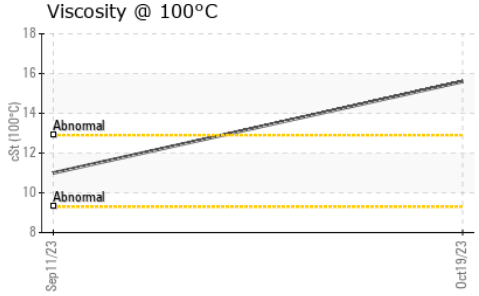
FT-IR (Direct Trend)



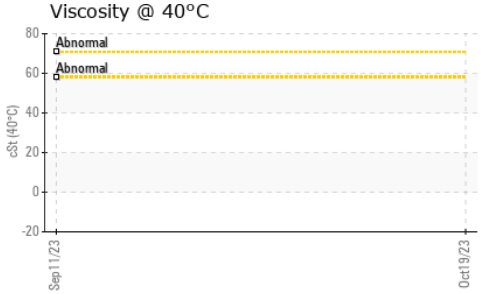
Base Number



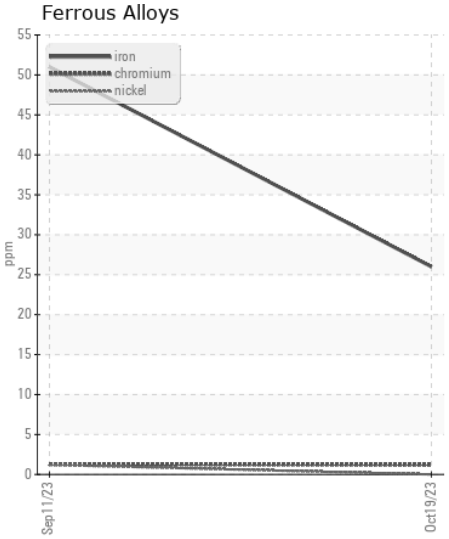
Viscosity @ 100°C



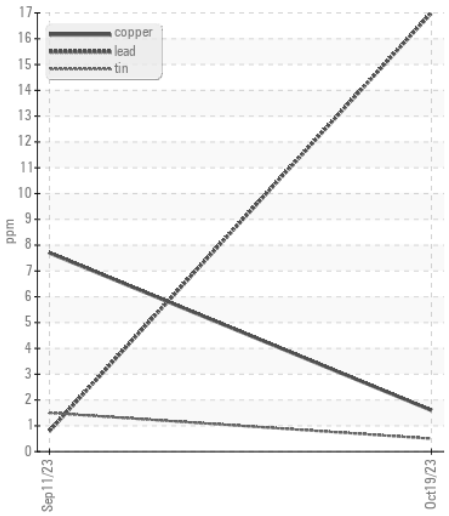
Viscosity @ 40°C



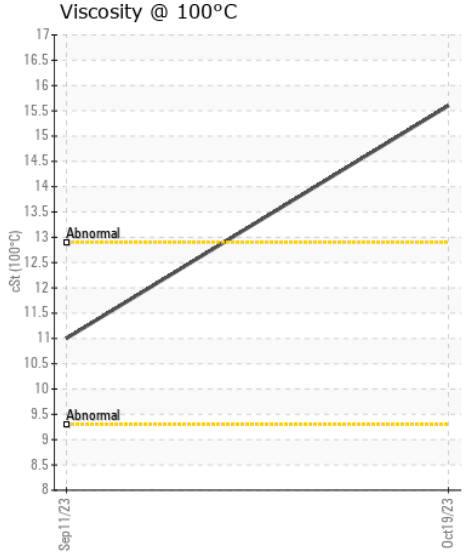
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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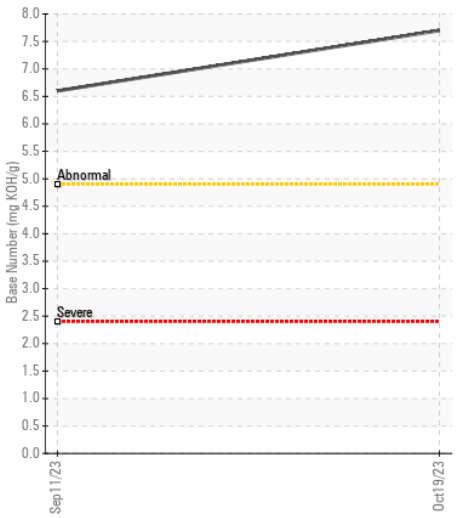

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043607
Lab Number : 05987947
Unique Number : 10710609
Test Package : CONST (Additional Tests: FT-IR, ICP, KV100, KV40, PQ, PrtCount, SCREEN, TBN)

Received : 24 Oct 2023
Tested : 26 Oct 2023
Diagnosed : 26 Oct 2023 - Jonathan Hester

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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