LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
JOHN DEERE 250G 1FF250GXJNF611968
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Tests do not reveal cause for reported problem. (Customer Sample Comment: RENTAL RETURN SAMPLE. HAD CODES FOR LOW OIL PRESSURE. RO# 145819)

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

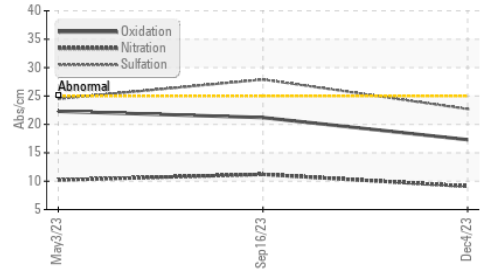
There is no indication of any contamination in the oil.

FLUID CONDITION

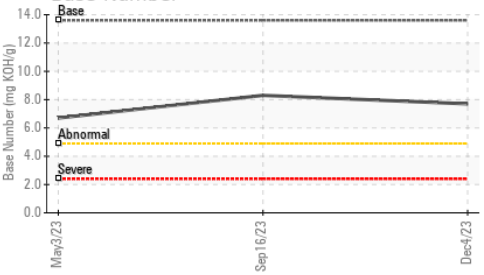
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046141	LEC0043789	LEC0032829
Sample Date		Client Info		04 Dec 2023	16 Sep 2023	03 May 2023
Machine Age	hrs	Client Info		1554	1186	648
Oil Age	hrs	Client Info		368	538	648
Filter Age	hrs	Client Info		368	538	648
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	17	37	63
Chromium	ppm	ASTM D5185m	>11	<1	1	2
Nickel	ppm	ASTM D5185m	>5	9	17	10
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	3	2	5
Lead	ppm	ASTM D5185m	>26	<1	<1	0
Copper	ppm	ASTM D5185m	>26	11	50	▲ 390
Tin	ppm	ASTM D5185m	>4	<1	<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	8	8	13
Potassium	ppm	ASTM D5185m	>20	2	5	4
Fuel		WC Method	>2.1	<1.0	<1.0	0.3
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.1	11.2	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	27.9	24.5
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	2	4	8
Boron	ppm	ASTM D5185m		199	95	141
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		242	207	214
Manganese	ppm	ASTM D5185m		<1	2	5
Magnesium	ppm	ASTM D5185m		848	704	728
Calcium	ppm	ASTM D5185m		1727	1868	1800
Phosphorus	ppm	ASTM D5185m		1002	912	931
Zinc	ppm	ASTM D5185m		1213	1188	1185
Sulfur	ppm	ASTM D5185m		3203	3262	3156
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	21.2	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	8.3	6.7
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.0	● 11.9

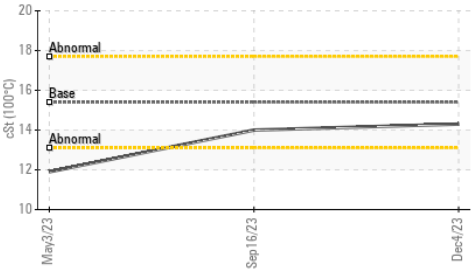
FT-IR (Direct Trend)



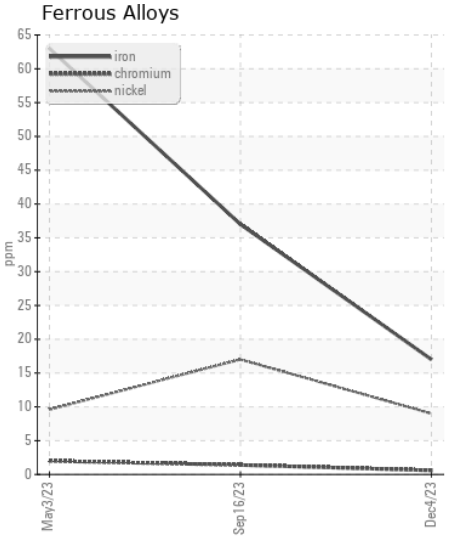
Base Number



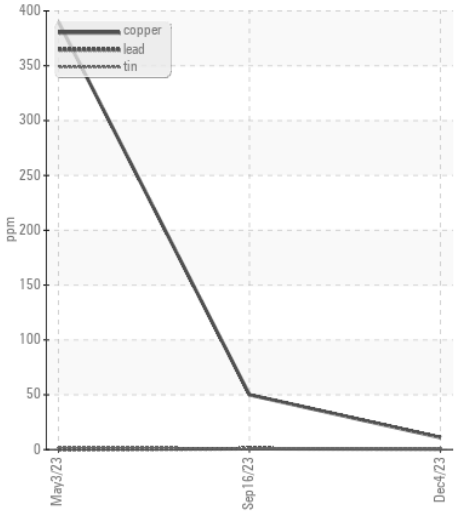
Viscosity @ 100°C



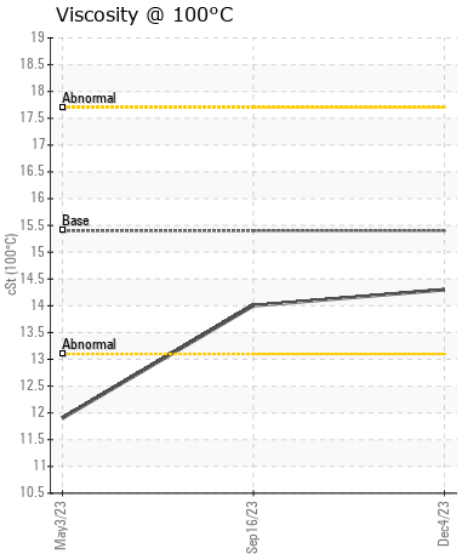
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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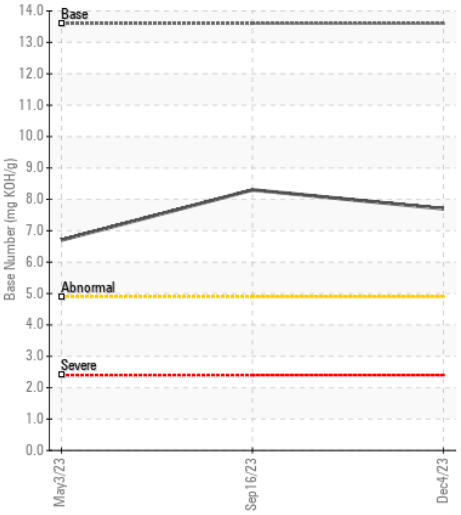

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046141 **Received** : 07 Dec 2023
Lab Number : 06027602 **Tested** : 08 Dec 2023
Unique Number : 10777393 **Diagnosed** : 08 Dec 2023 - Don Baldridge
Test Package : CONST (Additional Tests: TBN)

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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