LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 6 - Ashland [145200]
Machine Id
JOHN DEERE 644K 25950 (S/N 1DW644KZAHF685060)
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

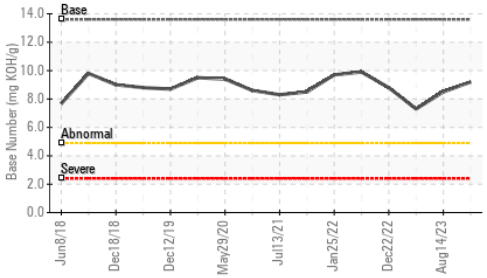
There is no indication of any contamination in the oil.

FLUID CONDITION

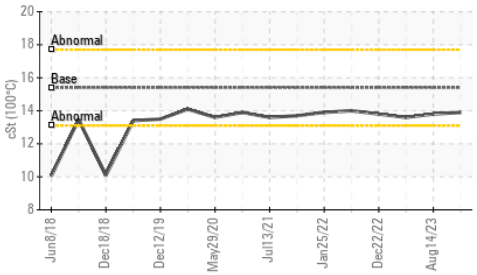
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0042905	LEC0041052	LEC0037462
Sample Date		Client Info		16 Nov 2023	14 Aug 2023	28 Mar 2023
Machine Age	hrs	Client Info		11978	11508	10660
Oil Age	hrs	Client Info		470	848	2274
Filter Age	hrs	Client Info		470	848	2274
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	24	51	▲ 94
Chromium	ppm	ASTM D5185m	>11	2	3	5
Nickel	ppm	ASTM D5185m	>5	2	1	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	5	5	5
Lead	ppm	ASTM D5185m	>26	<1	4	13
Copper	ppm	ASTM D5185m	>26	7	20	▲ 37
Tin	ppm	ASTM D5185m	>4	<1	2	4
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	10	14
Potassium	ppm	ASTM D5185m	>20	3	2	2
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	0.3	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.2	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	23.7	27.4
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	3	3	4
Boron	ppm	ASTM D5185m		225	146	42
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		239	252	262
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		856	886	837
Calcium	ppm	ASTM D5185m		1378	1498	1439
Phosphorus	ppm	ASTM D5185m		886	833	784
Zinc	ppm	ASTM D5185m		1096	1074	1009
Sulfur	ppm	ASTM D5185m		3056	3534	2463
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	18.0	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.2	8.5	7.3
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.8	13.6

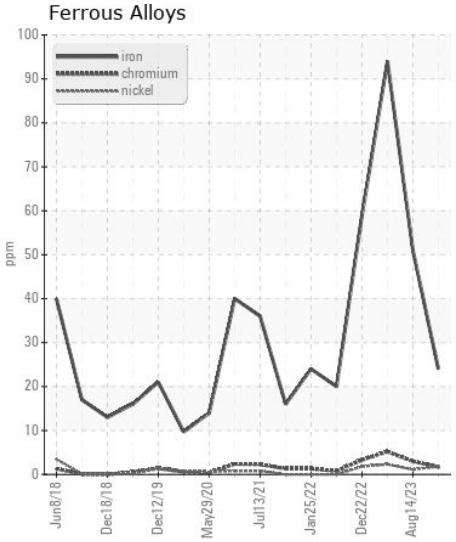
Base Number



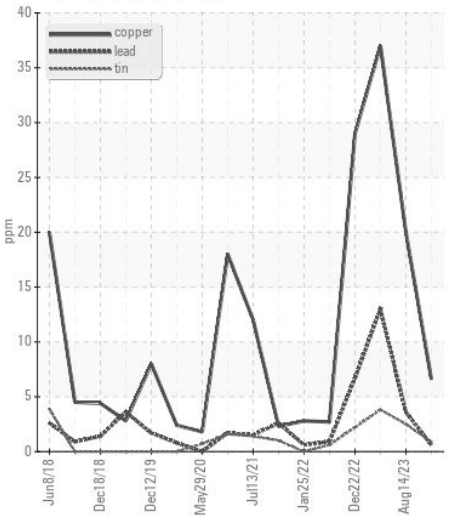
Viscosity @ 100°C



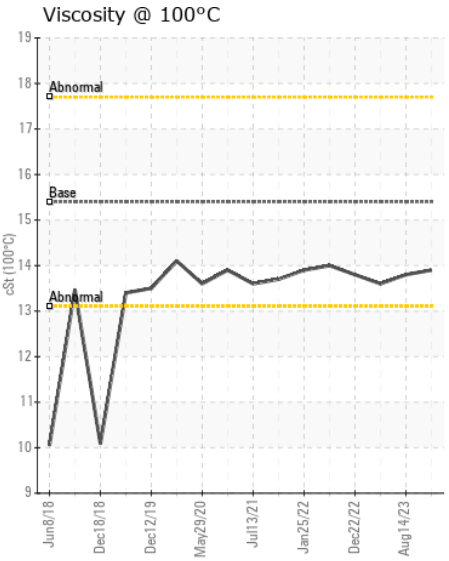
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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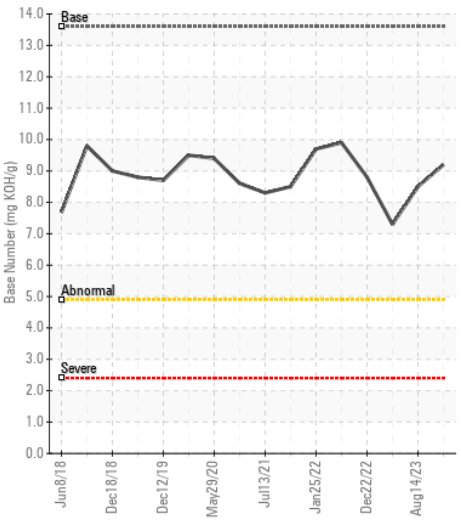

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042905
Lab Number : 06012244
Unique Number : 10751388
Test Package : CONST (Additional Tests: TBN)

Received : 20 Nov 2023
Tested : 21 Nov 2023
Diagnosed : 21 Nov 2023 - Wes Davis

VESUVIUS
1080 RIVER FRONT RD
WURTLAND, KY
US 41144
Contact: CHARLES

T: (606)327-1704
F:

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)