LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
JOHN DEERE 88576 (S/N 731157)
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

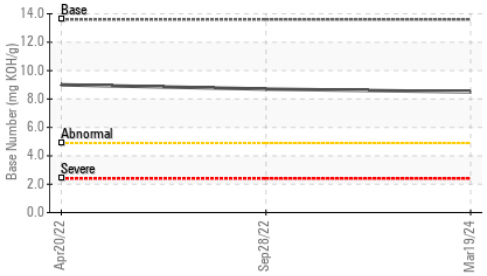
There is no indication of any contamination in the oil.

FLUID CONDITION

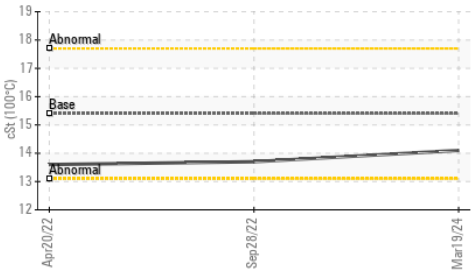
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0044590	LEC0028289	LEC0029840
Sample Date		Client Info		19 Mar 2024	28 Sep 2022	20 Apr 2022
Machine Age	hrs	Client Info		2277	1368	1011
Oil Age	hrs	Client Info		300	357	500
Filter Age	hrs	Client Info		300	0	500
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	23	▲ 62	▲ 58
Chromium	ppm	ASTM D5185m	>11	<1	2	1
Nickel	ppm	ASTM D5185m	>5	1	4	▲ 9
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	3	4	4
Lead	ppm	ASTM D5185m	>26	<1	<1	4
Copper	ppm	ASTM D5185m	>26	14	▲ 147	▲ 383
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	7	10	8
Potassium	ppm	ASTM D5185m	>20	3	3	<1
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	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.6	11.0	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	26.0	24.3
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	4	5
Boron	ppm	ASTM D5185m		437	125	240
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		110	250	233
Manganese	ppm	ASTM D5185m		<1	3	3
Magnesium	ppm	ASTM D5185m		472	771	843
Calcium	ppm	ASTM D5185m		1470	1495	1686
Phosphorus	ppm	ASTM D5185m		1036	800	886
Zinc	ppm	ASTM D5185m		1218	977	1043
Sulfur	ppm	ASTM D5185m		3547	2877	2596
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	20.7	19.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	8.7	9.0
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.7	13.6

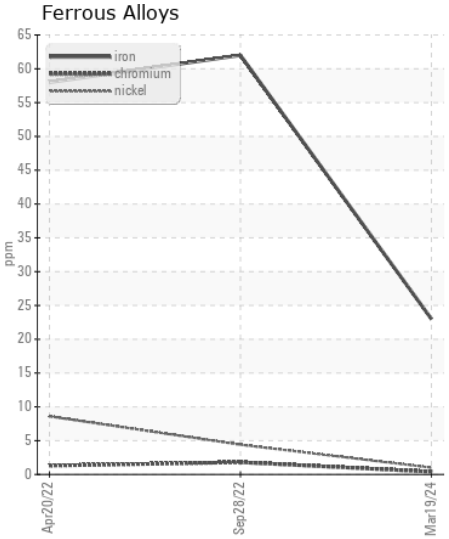
Base Number



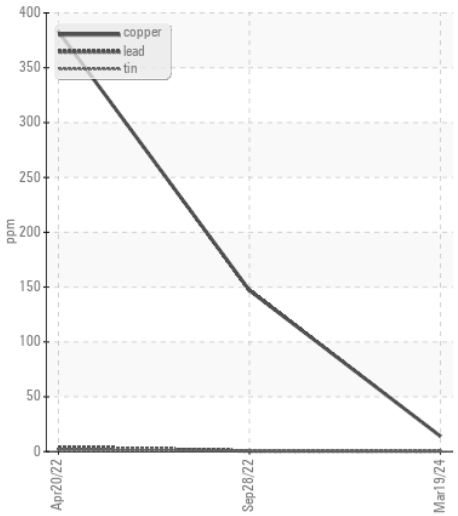
Viscosity @ 100°C



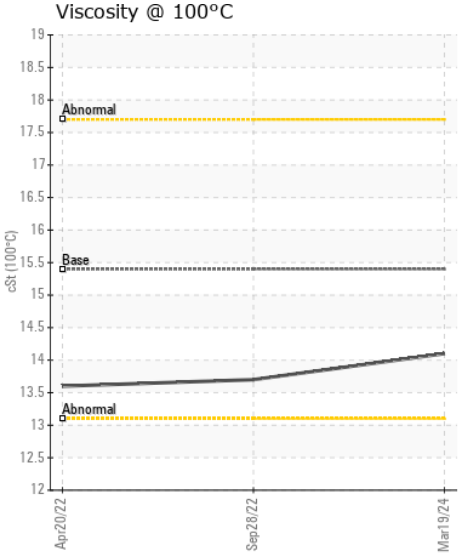
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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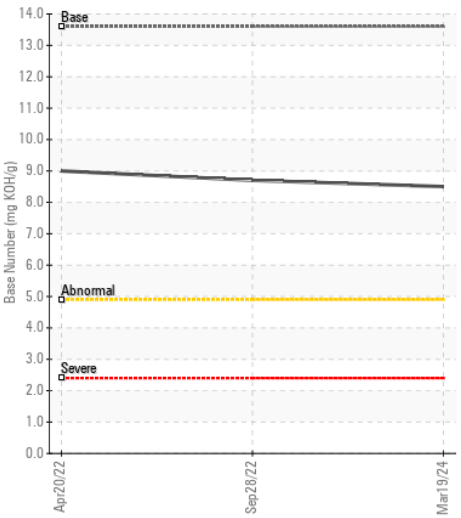

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044590
Lab Number : 06124766
Unique Number : 10938917
Test Package : CONST (Additional Tests: TBN)

Received : 21 Mar 2024
Tested : 22 Mar 2024
Diagnosed : 24 Mar 2024 - 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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