CONST

LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
JOHN DEERE 333G E131 (S/N JF333009)
Component
Diesel Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (--- 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 copper level has decreased, but is still abnormal. Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

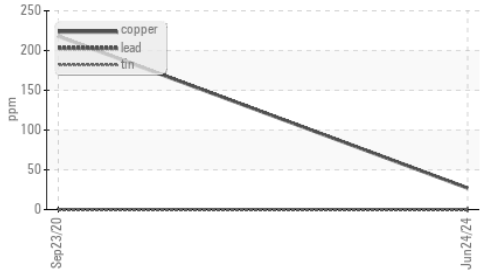
There is no indication of any contamination in the oil.

FLUID CONDITION

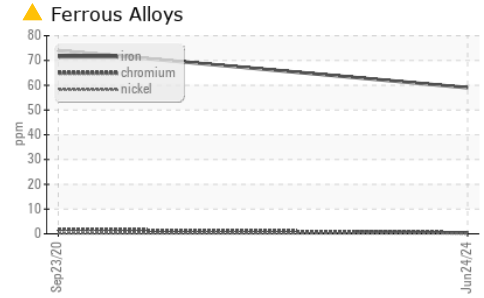
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049259	LEC0014439	---
Sample Date		Client Info		24 Jun 2024	23 Sep 2020	---
Machine Age	hrs	Client Info		1751	575	---
Oil Age	hrs	Client Info		500	574	---
Filter Age	hrs	Client Info		500	574	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>51	▲ 59	74	---
Chromium	ppm	ASTM D5185m	>11	<1	2	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>31	4	10	---
Lead	ppm	ASTM D5185m	>26	0	0	---
Copper	ppm	ASTM D5185m	>26	▲ 27	▲ 218	---
Tin	ppm	ASTM D5185m	>4	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>!20	13	54	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Fuel		WC Method	>2.1	<1.0	0.4	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	11.0	12.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	28	---
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	14	---
Boron	ppm	ASTM D5185m	151	21	81	---
Barium	ppm	ASTM D5185m	0.4	0	2	---
Molybdenum	ppm	ASTM D5185m	250	81	236	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m	0	473	702	---
Calcium	ppm	ASTM D5185m	2046	1909	1813	---
Phosphorus	ppm	ASTM D5185m	1043	1069	947	---
Zinc	ppm	ASTM D5185m	943	1351	1158	---
Sulfur	ppm	ASTM D5185m	5012	3396	2398	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	23.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	7.3	8.1	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	12.2	---

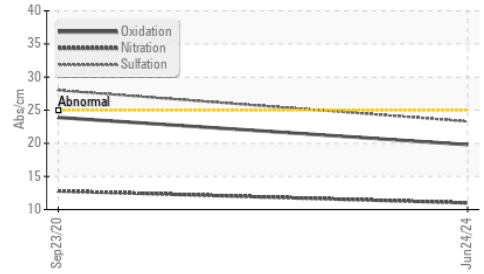
Non-ferrous Metals



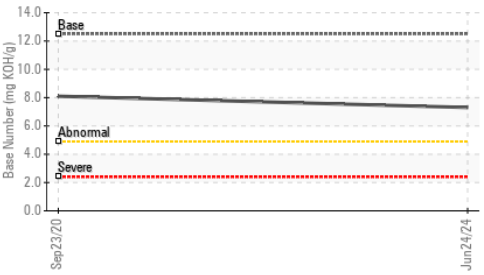
Ferrous Alloys



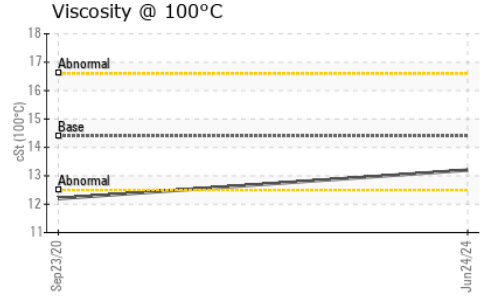
FT-IR (Direct Trend)



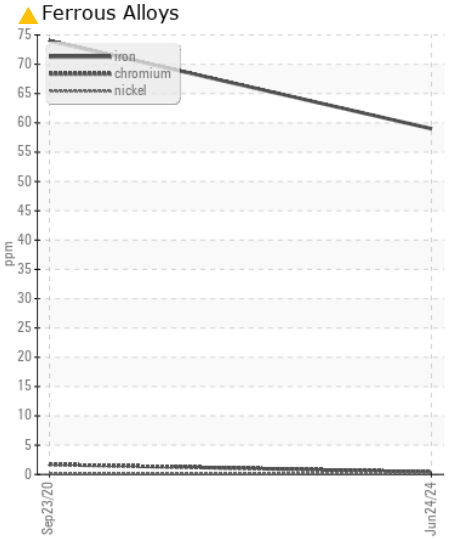
Base Number



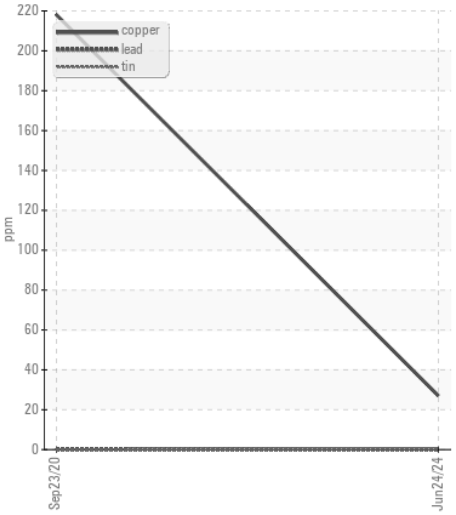
Viscosity @ 100°C



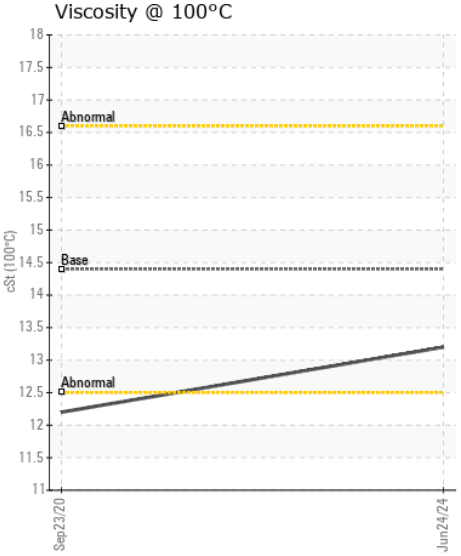
Ferrous Alloys



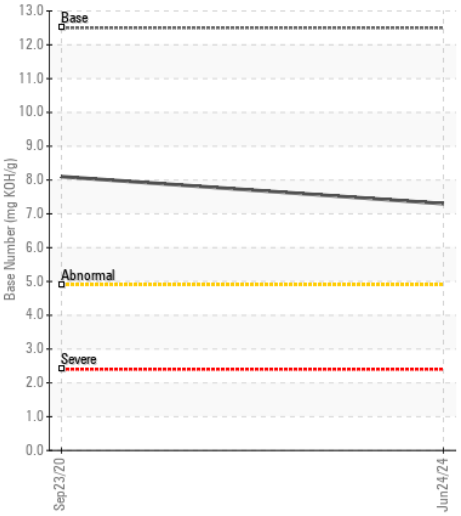
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049259 **Received** : 03 Jul 2024
Lab Number : 06227145 **Tested** : 05 Jul 2024
Unique Number : 11110638 **Diagnosed** : 05 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: TBN, KV40)

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)

LANE PIPELINE
2946 E MAIN ST
BRIDGEPORT, WV
US 26330
Contact: JESSE WILBURN
jesseowilburn@gmail.com
T: (740)440-0927
F: