



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 410E 1DW410EBANF713734
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0044538	LEC0043378	---
Sample Date		Client Info		14 Mar 2024	20 Oct 2023	---
Machine Age	hrs	Client Info		961	675	---
Oil Age	hrs	Client Info		450	675	---
Filter Age	hrs	Client Info		450	675	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ATTENTION	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	16	53	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	2	4	---
Lead	ppm	ASTM D5185m	>26	4	25	---
Copper	ppm	ASTM D5185m	>26	66	▲ 480	---
Tin	ppm	ASTM D5185m	>4	4	11	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

Fuel content negligible. There is no indication of any contamination in the oil.

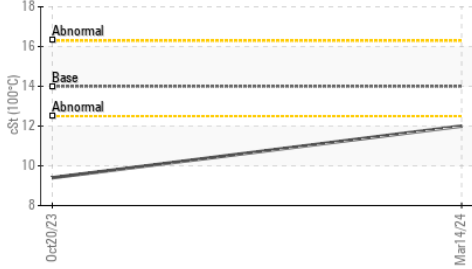
Silicon	ppm	ASTM D5185m	>120	6	14	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Fuel	%	ASTM D3524	>8.0	2.0	▲ 4.1	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	7.9	11.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	25.2	---
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	---

FLUID CONDITION

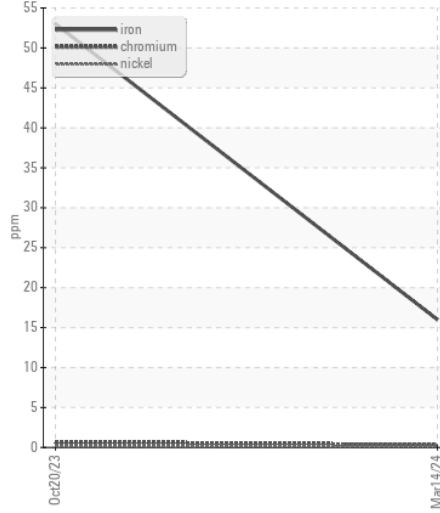
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>31	2	15	---
Boron	ppm	ASTM D5185m	0	40	57	---
Barium	ppm	ASTM D5185m	0	0	2	---
Molybdenum	ppm	ASTM D5185m	0	62	220	---
Manganese	ppm	ASTM D5185m		2	13	---
Magnesium	ppm	ASTM D5185m	0	518	692	---
Calcium	ppm	ASTM D5185m		1584	1300	---
Phosphorus	ppm	ASTM D5185m		774	714	---
Zinc	ppm	ASTM D5185m		944	895	---
Sulfur	ppm	ASTM D5185m		2746	2249	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	22.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.8	7.8	---
Visc @ 100°C	cSt	ASTM D445	14	● 12.0	▲ 9.4	---

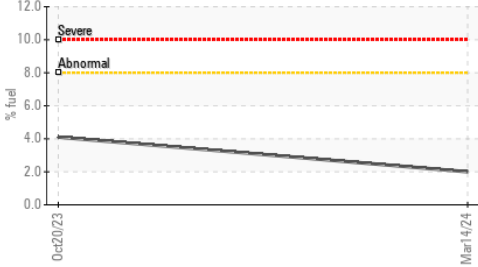
● Viscosity @ 100°C



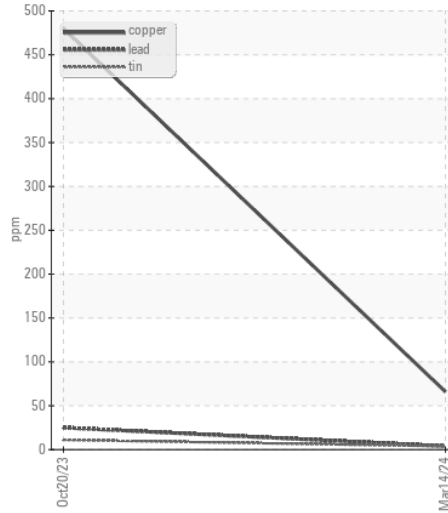
Ferrous Alloys



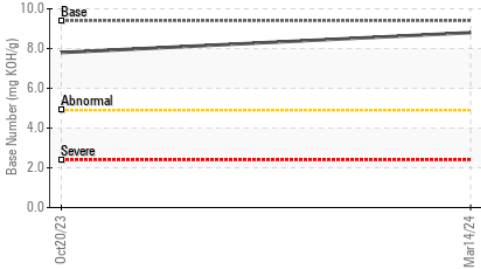
Fuel Dilution



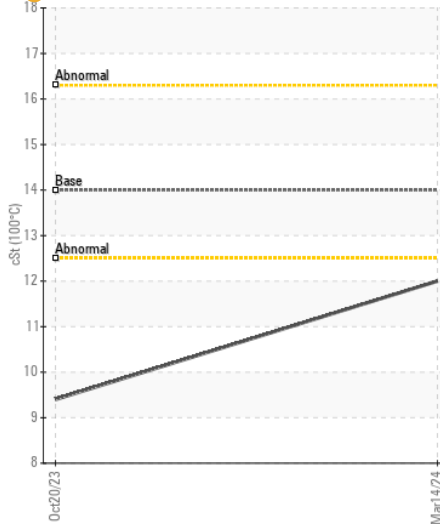
Non-ferrous Metals



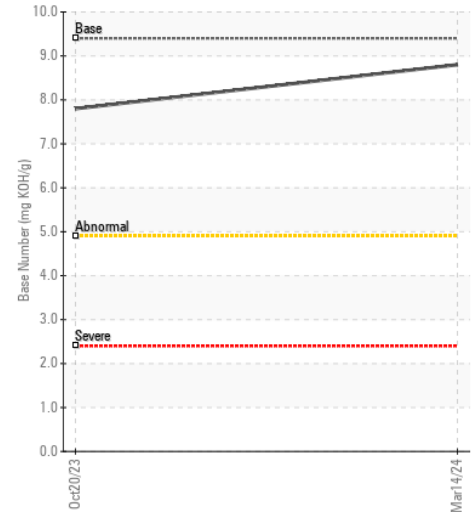
Base Number



● Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044538 **Received** : 19 Mar 2024
Lab Number : 06122162 **Tested** : 26 Mar 2024
Unique Number : 10936313 **Diagnosed** : 26 Mar 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PercentFuel, TBN)

CHISLER INC.
 153 BLUE GOOSE RD.
 FAIRVIEW, WV
 US 26570

Contact: RICHARD SYPOLT
 richard.sypolt@gmail.com

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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