



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta [RO#144787]
 Machine Id
HAMM H12i WGG0H235HHAA00880
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (10 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0043602	LEC0018453	---
Sample Date		Client Info		19 Oct 2023	25 Nov 2020	---
Machine Age	hrs	Client Info		985	362	---
Oil Age	hrs	Client Info		623	362	---
Filter Age	hrs	Client Info		623	362	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	42	38	---
Chromium	ppm	ASTM D5185m	>20	2	5	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	8	6	---
Lead	ppm	ASTM D5185m	>40	3	2	---
Copper	ppm	ASTM D5185m	>330	9	9	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

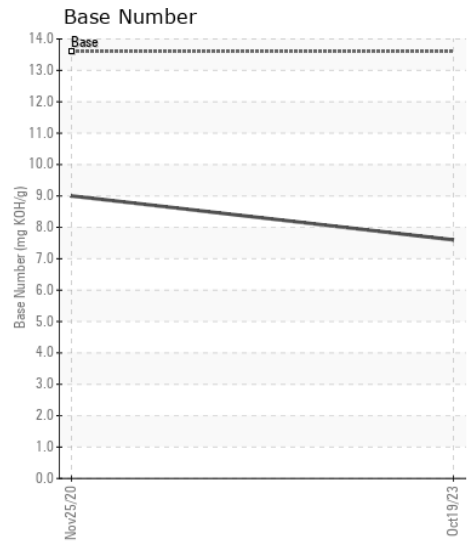
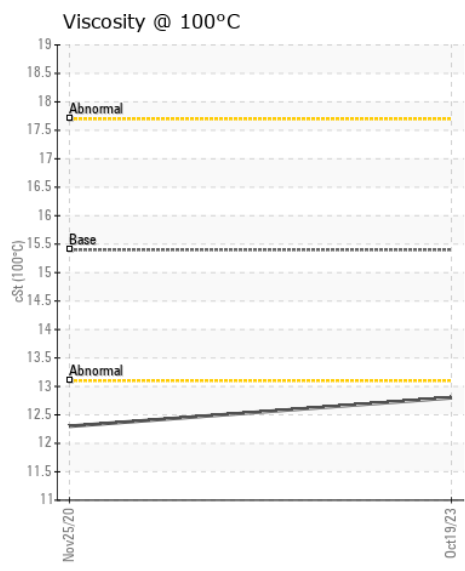
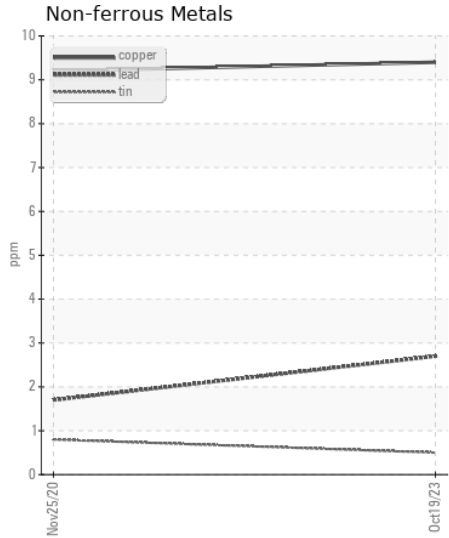
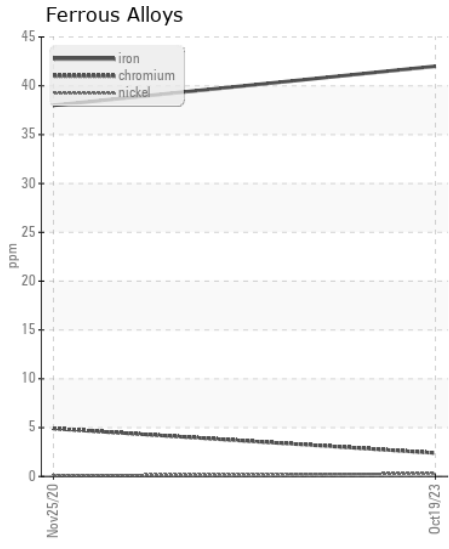
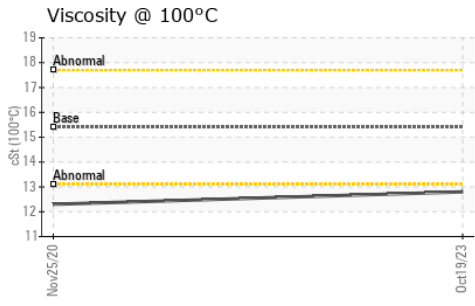
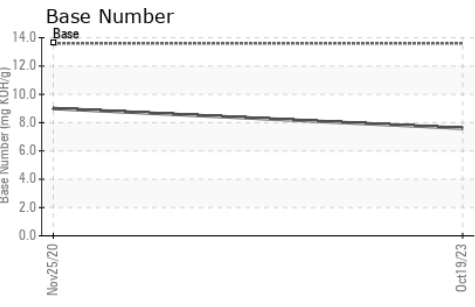
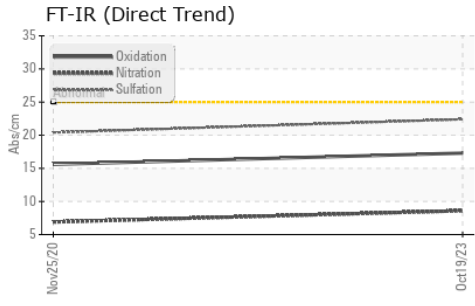
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	18	19	---
Potassium	ppm	ASTM D5185m	>20	5	1	---
Fuel	%	ASTM D3524	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	8.6	6.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	20.4	---
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	>0.2	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185m		0	2	---
Boron	ppm	ASTM D5185m		166	127	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		256	80	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m		792	532	---
Calcium	ppm	ASTM D5185m		1551	1737	---
Phosphorus	ppm	ASTM D5185m		919	1059	---
Zinc	ppm	ASTM D5185m		1132	1254	---
Sulfur	ppm	ASTM D5185m		3476	3470	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	9	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	12.3	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043602 **Received** : 23 Oct 2023
Lab Number : 05986284 **Tested** : 24 Oct 2023
Unique Number : 10708946 **Diagnosed** : 25 Oct 2023 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, TBN)

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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)