



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
 Machine Id
GMC 2500HD 1GT49LEY9PF212135

Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (11 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: M3 SERVICE)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047229	LEC0045561	LEC0040939
Sample Date		Client Info		12 Jan 2024	07 Nov 2023	22 Sep 2023
Machine Age	mls	Client Info		47994	40598	32632
Oil Age	mls	Client Info		7396	7966	16238
Filter Age	mls	Client Info		7396	7966	16238
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	16	19
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	13	12	14
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	97	101	89
Tin	ppm	ASTM D5185m	>15	0	1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

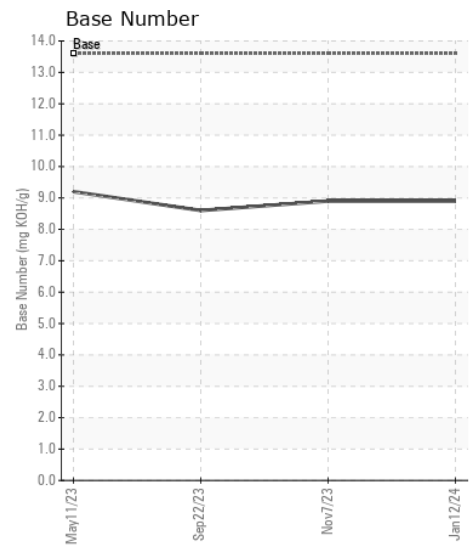
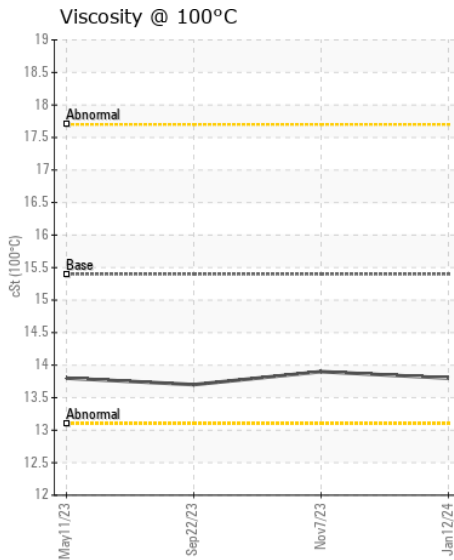
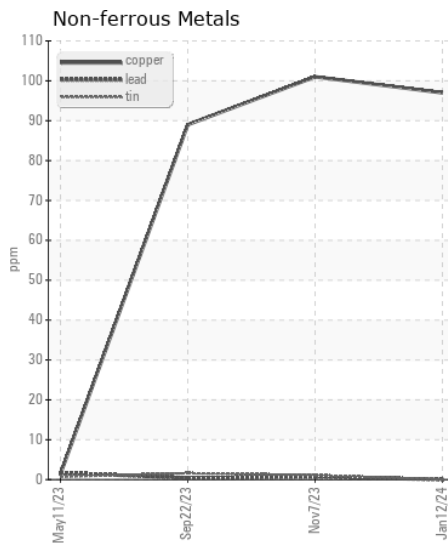
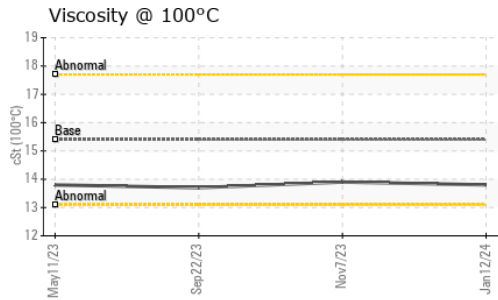
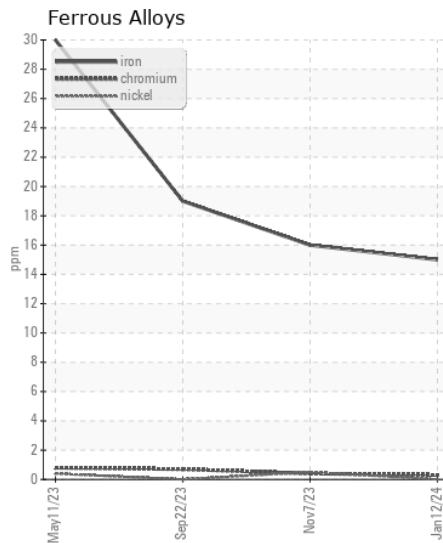
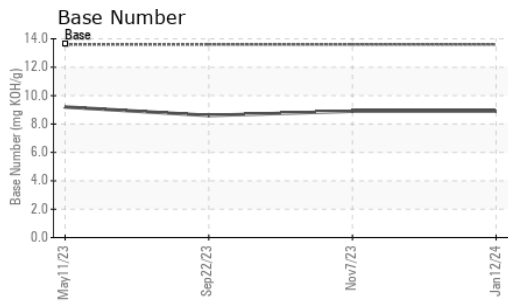
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	10	11	13
Potassium	ppm	ASTM D5185m	>20	35	28	40
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.0	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.3	21.3
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	>0.2	NEG	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	0	4
Boron	ppm	ASTM D5185m		256	246	228
Barium	ppm	ASTM D5185m		4	<1	0
Molybdenum	ppm	ASTM D5185m		249	255	244
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m		802	762	818
Calcium	ppm	ASTM D5185m		1368	1452	1541
Phosphorus	ppm	ASTM D5185m		875	872	920
Zinc	ppm	ASTM D5185m		1107	1071	1099
Sulfur	ppm	ASTM D5185m		3281	2975	3663
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	17.8	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	8.9	8.6
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047229 **Received** : 18 Jan 2024
Lab Number : 06064051 **Diagnosed** : 20 Jan 2024
Unique Number : 10835433 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com
 T:
 F: (740)373-5570