



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 6 - Ashland [146860]
Machine Id
JOHN DEERE 844K 28819 (S/N 1DW844KCLJF689430)
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (11 GAL)

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		LEC0046491	LEC0041889	LEC0024148
Sample Date		Client Info		15 Jan 2024	25 Aug 2023	20 Apr 2023
Machine Age	hrs	Client Info		10131	9547	8963
Oil Age	hrs	Client Info		584	584	541
Filter Age	hrs	Client Info		584	584	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	14	14	14
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	7	4
Lead	ppm	ASTM D5185m	>26	3	3	0
Copper	ppm	ASTM D5185m	>26	12	14	14
Tin	ppm	ASTM D5185m	>4	<1	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

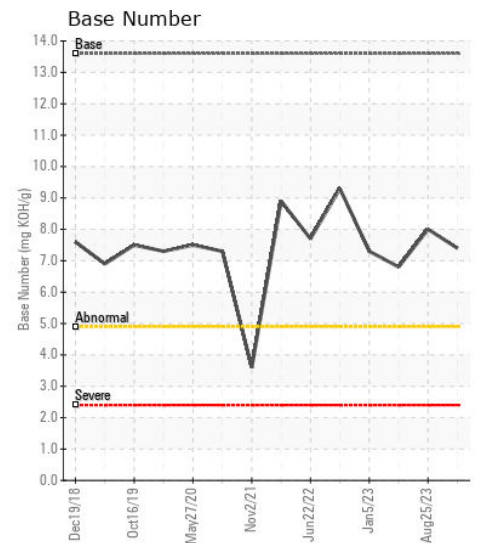
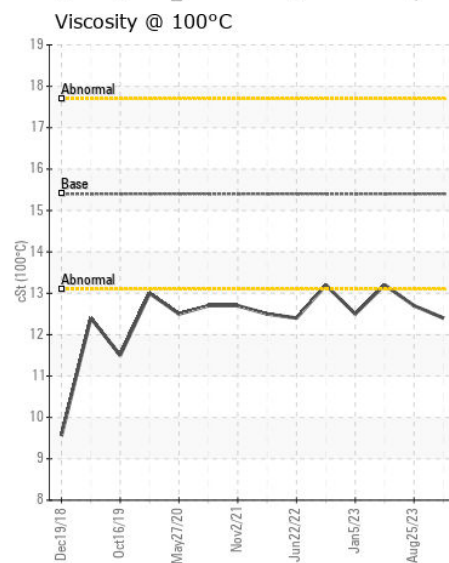
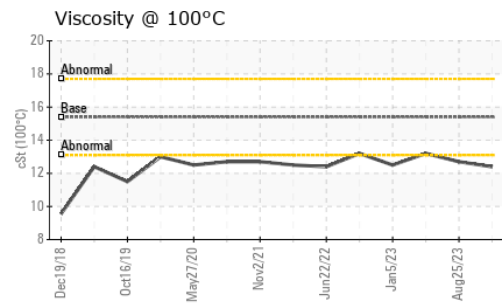
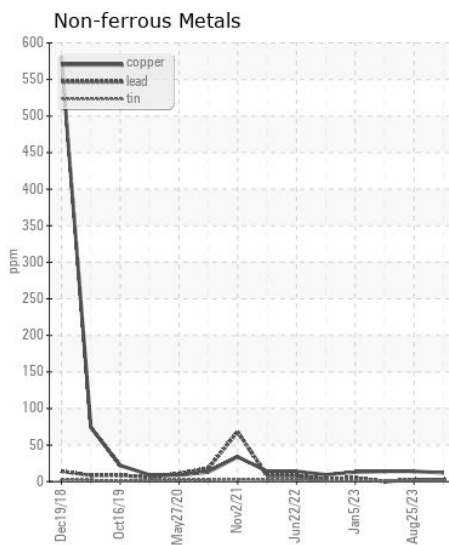
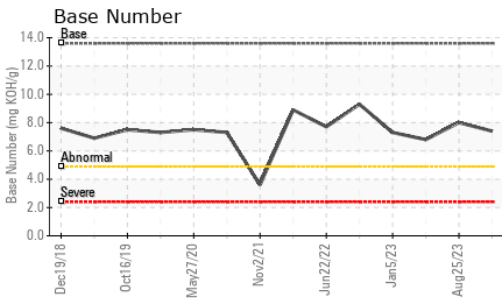
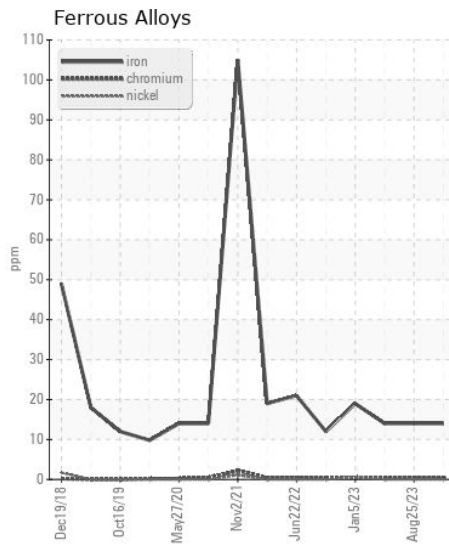
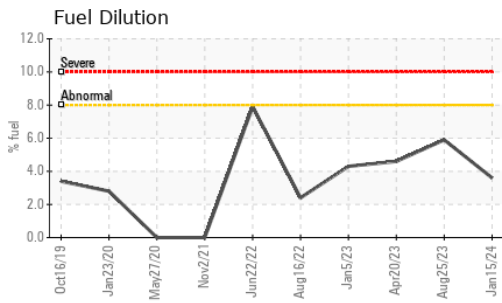
Fuel content negligible. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>120	6	6	5
Potassium	ppm	ASTM D5185m	>20	3	2	1
Fuel	%	ASTM D3524	>8.0	3.6	▲ 5.9	▲ 4.6
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.2	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	24.8	21.9
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

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.

Sodium	ppm	ASTM D5185m	>31	<1	5	4
Boron	ppm	ASTM D5185m		164	142	176
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m		249	254	243
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		815	827	796
Calcium	ppm	ASTM D5185m		1298	1437	1391
Phosphorus	ppm	ASTM D5185m		777	761	754
Zinc	ppm	ASTM D5185m		978	950	939
Sulfur	ppm	ASTM D5185m		3124	3414	3348
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	19.0	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.4	8.0	6.8
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	▲ 12.7	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046491 **Received** : 18 Jan 2024
Lab Number : 06064055 **Diagnosed** : 24 Jan 2024
Unique Number : 10835437 **Diagnostician** : Doug Bogart
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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
 KendallLeanne@lec1.com
 T:
 F: (740)373-5570