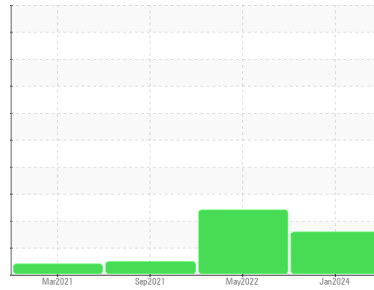




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
Store 8 - Pikeville [146422]
 Machine Id
PRINOTH T14R 935310213

Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

DIAGNOSIS

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

Piston, ring and cylinder 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	LEC0042688	LEC0027530	LEC0025208
Sample Date	Client Info	08 Jan 2024	02 May 2022	27 Sep 2021
Machine Age	hrs	1800	1351	959
Oil Age	hrs	449	392	339
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	▲ 104	89	95
Chromium	ppm ASTM D5185m >20	5	4	4
Nickel	ppm ASTM D5185m >4	2	4	<1
Titanium	ppm ASTM D5185m	<1	<1	<1
Silver	ppm ASTM D5185m >3	0	<1	0
Aluminum	ppm ASTM D5185m >20	▲ 39	▲ 31	19
Lead	ppm ASTM D5185m >40	<1	<1	<1
Copper	ppm ASTM D5185m >330	4	13	10
Tin	ppm ASTM D5185m >15	<1	<1	<1
Antimony	ppm ASTM D5185m	---	---	<1
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	186	124	149
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	223	221	233
Manganese	ppm ASTM D5185m	2	2	2
Magnesium	ppm ASTM D5185m	805	897	762
Calcium	ppm ASTM D5185m	1366	1542	1584
Phosphorus	ppm ASTM D5185m	878	915	905
Zinc	ppm ASTM D5185m	1107	1128	1095
Sulfur	ppm ASTM D5185m	3020	2566	2818

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >120	15	▲ 22	28
Sodium	ppm ASTM D5185m	0	2	56
Potassium	ppm ASTM D5185m >20	0	4	16

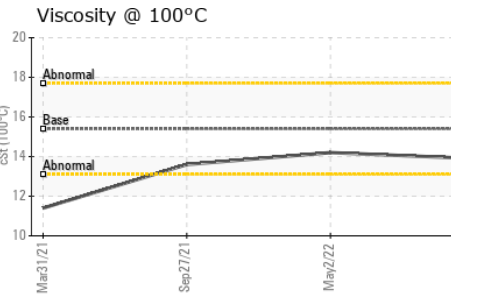
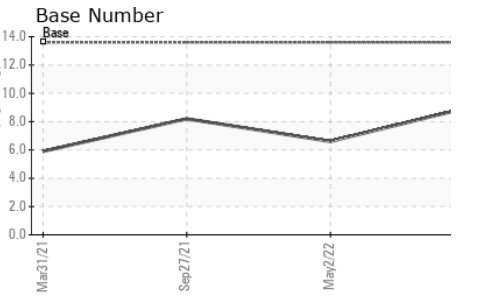
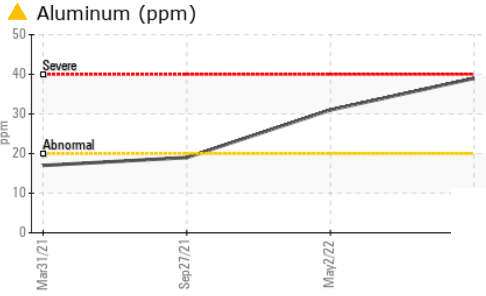
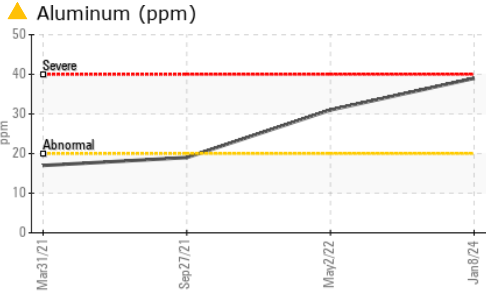
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.3	0.6	0.5
Nitration	Abs/cm *ASTM D7624 >20	8.4	9.4	9.7
Sulfation	Abs/.1mm *ASTM D7415 >30	21.4	22.0	23.7

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.0	17.1	19.3
Base Number (BN)	mg KOH/g ASTM D2896 13.6	9.1	6.6	8.2

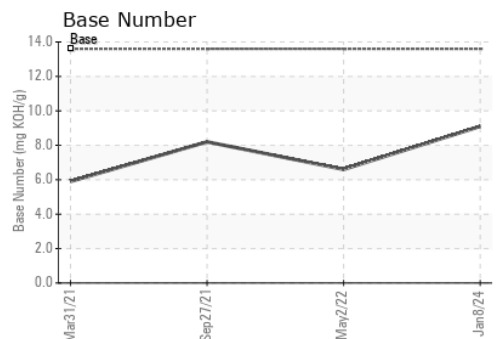
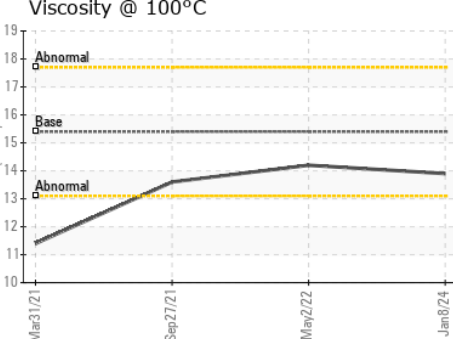
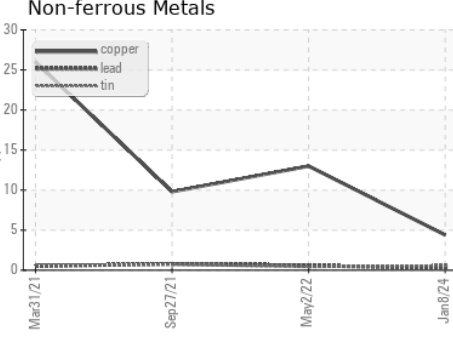
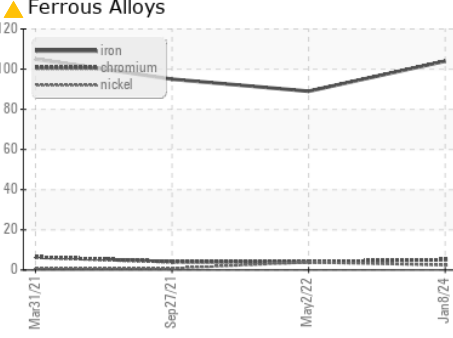
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042688 **Recieved** : 11 Jan 2024
Lab Number : 06057940 **Diagnosed** : 12 Jan 2024
Unique Number : 10829322 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: TBN)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
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 KendalLeanne@lec1.com
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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)