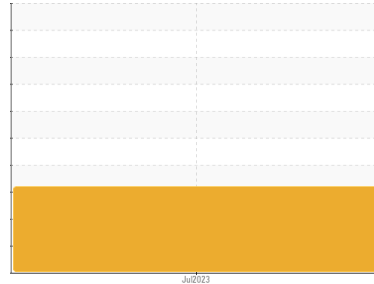




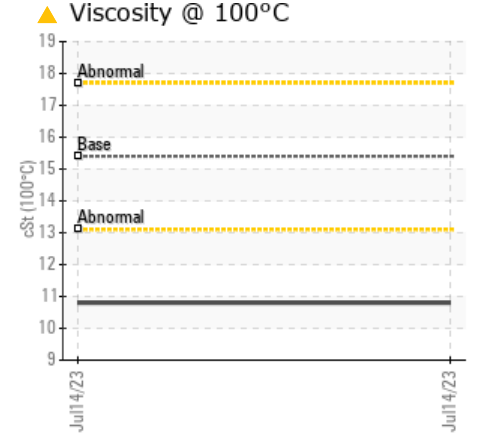
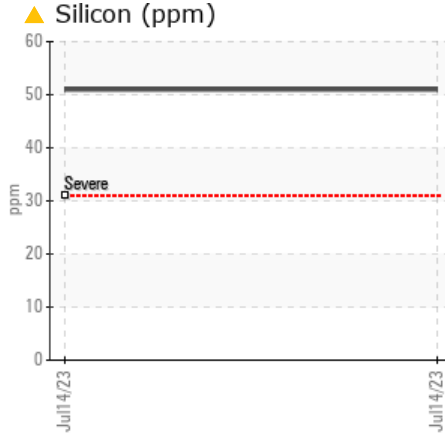
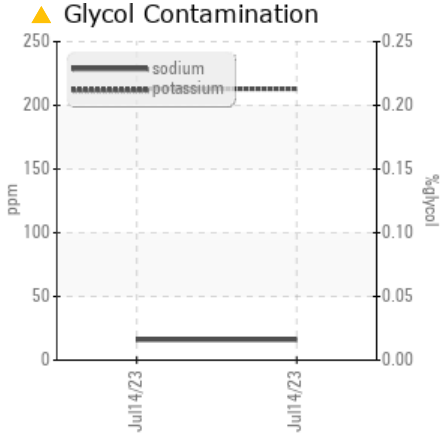
PROBLEM SUMMARY

Area
Store 5 - Cross Lanes
 Machine Id
JOHN DEERE 60G 1FF060GXENJ295492
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Silicon	ppm	ASTM D5185m	>120	▲ 51	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 213	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 10.8	---	---

Customer Id: LESMAROH
 Sample No.: LEC0041998
 Lab Number: 05901073
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

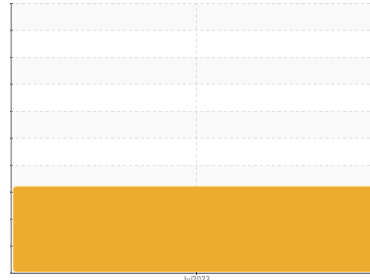
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
Store 5 - Cross Lanes
 Machine Id
JOHN DEERE 60G 1FF060GXENJ295492
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

DIAGNOSIS

Recommendation

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

Wear

Metal levels are typical for a new component breaking in.

Contamination

Sodium and/or potassium levels are high. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	LEC0041998	---	---
Sample Date	Client Info	14 Jul 2023	---	---
Machine Age	hrs Client Info	685	---	---
Oil Age	hrs Client Info	685	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>51	55	---	---
Chromium ppm ASTM D5185m	>11	2	---	---
Nickel ppm ASTM D5185m	>5	<1	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m	>3	0	---	---
Aluminum ppm ASTM D5185m	>31	5	---	---
Lead ppm ASTM D5185m	>26	0	---	---
Copper ppm ASTM D5185m	>26	8	---	---
Tin ppm ASTM D5185m	>4	0	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		143	---	---
Barium ppm ASTM D5185m		4	---	---
Molybdenum ppm ASTM D5185m		189	---	---
Manganese ppm ASTM D5185m		2	---	---
Magnesium ppm ASTM D5185m		27	---	---
Calcium ppm ASTM D5185m		2585	---	---
Phosphorus ppm ASTM D5185m		703	---	---
Zinc ppm ASTM D5185m		887	---	---
Sulfur ppm ASTM D5185m		2963	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>120	▲ 51	---	---
Sodium ppm ASTM D5185m	>31	16	---	---
Potassium ppm ASTM D5185m	>20	▲ 213	---	---
Fuel % ASTM D3524	>2.1	0.2	---	---
Glycol % *ASTM D2982		NEG	---	---

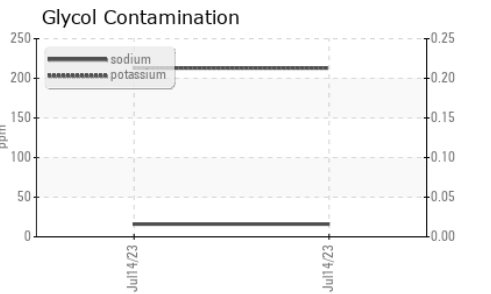
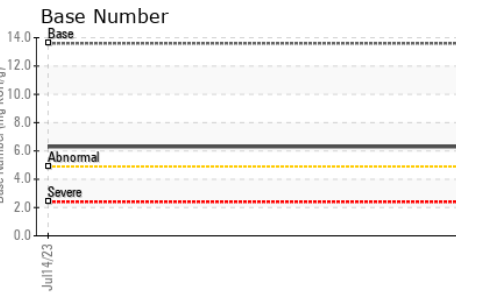
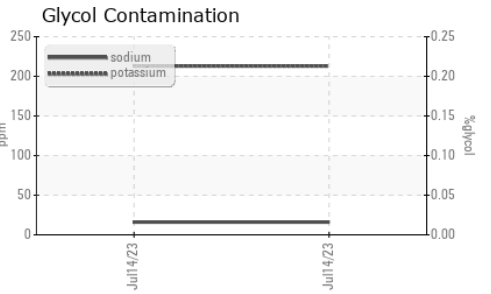
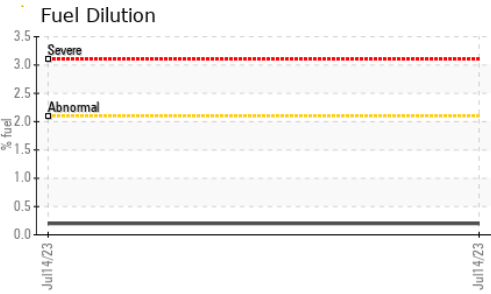
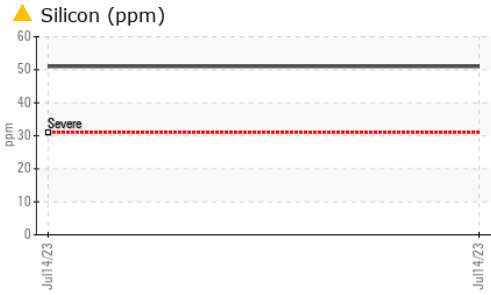
INFRA-RED

method	limit/base	current	history1	history2
Soot % *ASTM D7844	>3	0.4	---	---
Nitration Abs/cm *ASTM D7624	>20	10.6	---	---
Sulfation Abs/.1mm *ASTM D7415	>30	20.0	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm *ASTM D7414	>25	16.3	---	---
Base Number (BN) mg KOH/g ASTM D2896	13.6	6.3	---	---

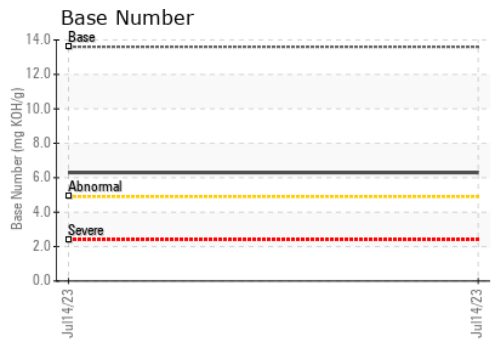
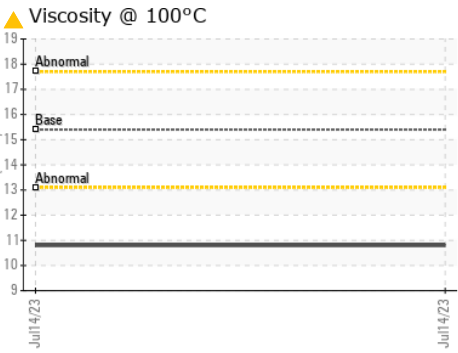
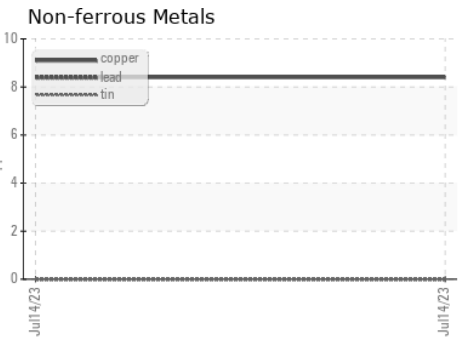
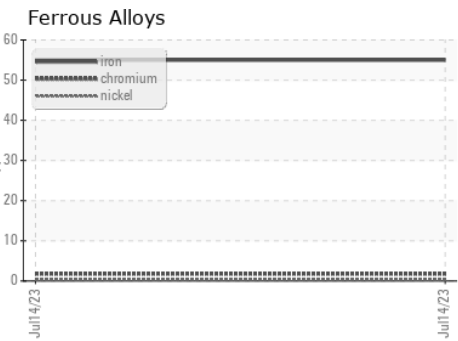
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 10.8	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041998 **Received** : 18 Jul 2023
Lab Number : 05901073 **Diagnosed** : 20 Jul 2023
Unique Number : 10562429 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, Glycol, 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
 KendalLeanne@lec1.com
 T:
 F: (740)373-5570