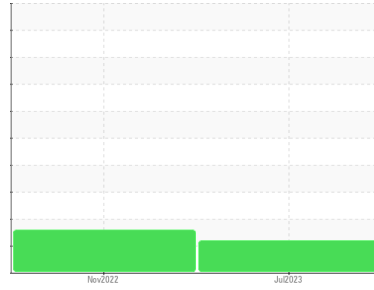




PROBLEM SUMMARY

Sample Rating Trend



DEGRADATION



Machine Id
LH842685
 Component
Diesel Engine
 Fluid
NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display


RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	ABNORMAL	---
Base Number (BN) mg KOH/g ASTM D2896	▲ 3.9	6.3	---

Customer Id: IDETAMFL
Sample No.: IL05934640
Lab Number: 05934640
Test Package: FLEET



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
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.

HISTORICAL DIAGNOSIS

10 Nov 2022 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Piston and cylinder wear is indicated. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



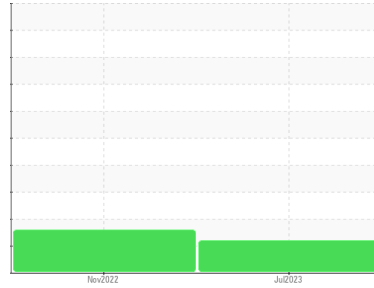


OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Machine Id
LH842685
Component
Diesel Engine
Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

▲ Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	IL05934640	IL05701115	---
Sample Date	Client Info	28 Jul 2023	10 Nov 2022	---
Machine Age	mls	Client Info	150280	111329
Oil Age	mls	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	ABNORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	0.7	---
Glycol	WC Method	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	23	▲ 110	---
Chromium	ppm ASTM D5185m >20	<1	1	---
Nickel	ppm ASTM D5185m >4	0	<1	---
Titanium	ppm ASTM D5185m	0	<1	---
Silver	ppm ASTM D5185m >3	0	0	---
Aluminum	ppm ASTM D5185m >20	3	▲ 35	---
Lead	ppm ASTM D5185m >40	6	<1	---
Copper	ppm ASTM D5185m >330	1	4	---
Tin	ppm ASTM D5185m >15	<1	<1	---
Vanadium	ppm ASTM D5185m	<1	0	---
Cadmium	ppm ASTM D5185m	0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	17	34	---
Barium	ppm ASTM D5185m	0	0	---
Molybdenum	ppm ASTM D5185m	62	39	---
Manganese	ppm ASTM D5185m	<1	1	---
Magnesium	ppm ASTM D5185m	710	523	---
Calcium	ppm ASTM D5185m	1335	1031	---
Phosphorus	ppm ASTM D5185m	778	572	---
Zinc	ppm ASTM D5185m	982	647	---
Sulfur	ppm ASTM D5185m	2892	2086	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	6	17	---
Sodium	ppm ASTM D5185m	4	8	---
Potassium	ppm ASTM D5185m >20	3	5	---

INFRA-RED

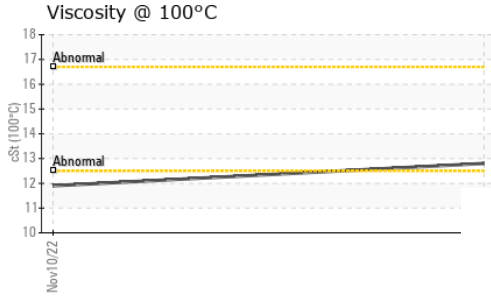
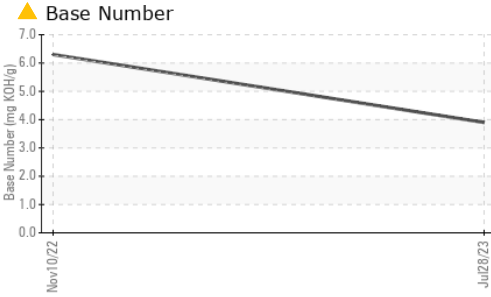
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	0.3	---
Nitration	Abs/cm *ASTM D7624 >20	11.9	11.2	---
Sulfation	Abs/.1mm *ASTM D7415 >30	26.2	25.6	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	25.9	31.2	---
Base Number (BN)	mg KOH/g ASTM D2896	▲ 3.9	6.3	---



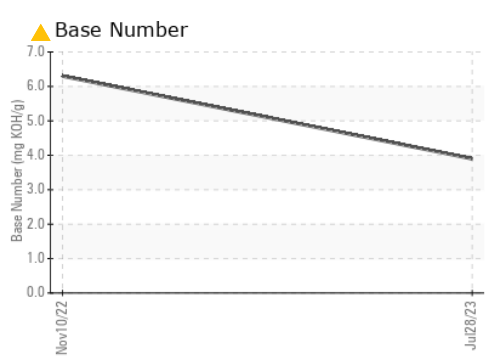
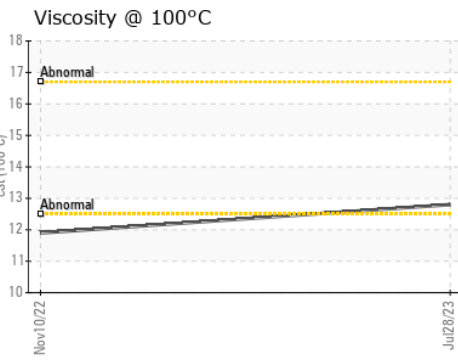
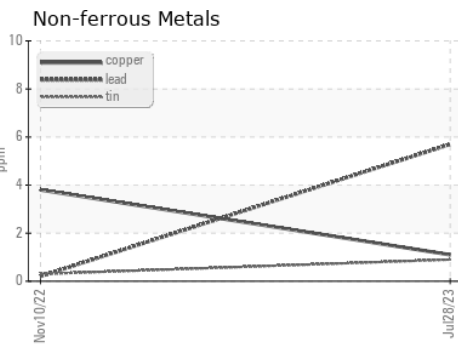
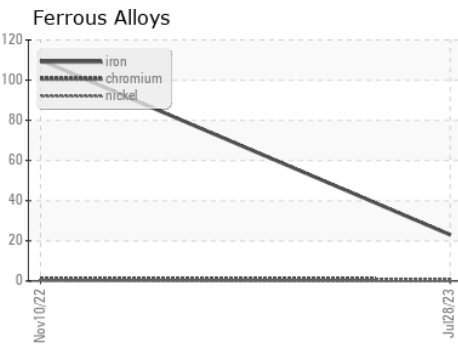
OIL ANALYSIS REPORT



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	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.8	11.9	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL05934640 **Received** : 25 Aug 2023
Lab Number : **05934640** **Diagnosed** : 29 Aug 2023
Unique Number : 10619911 **Diagnostician** : Jonathan Hester
Test Package : FLEET

TAMPA IDEALEASE
 5951 ORIENT ROAD
 TAMPA, FL
 US 33610-9565
 Contact: Russ Cook
 russcook@idealease.com
 T: (813)626-9285
 F: (844)270-1356

Certificate L2367
 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)