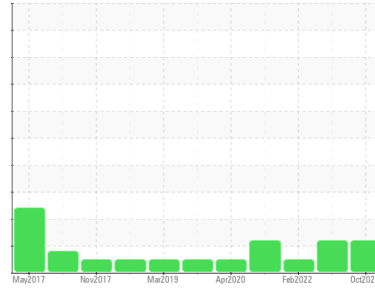




PROBLEM SUMMARY

Sample Rating Trend



DEGRADATION



Machine Id
INTERNATIONAL 8812198
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

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	ABNORMAL	NORMAL
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	▲ 3.1	▲ 3.1	7.8

Customer Id: IDETAMFL
 Sample No.: IL0034271
 Lab Number: 05996473
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:

Sean Felton +1 919-379-4092
sfelton@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

02 May 2023 Diag: Jonathan Hester

DEGRADATION



The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low. The condition of the oil is acceptable for the time in service.

[view report](#)



24 Feb 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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](#)



26 Dec 2020 Diag: Jonathan Hester

GLYCOL



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

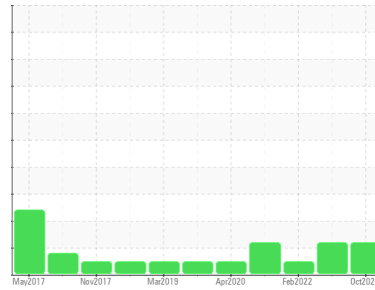
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id
INTERNATIONAL 8812198
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		IL0034271	IL05840492	IL05482497
Sample Date	Client Info		12 Oct 2023	02 May 2023	24 Feb 2022
Machine Age	mls	Client Info	311260	276276	200661
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		Changed	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	81	48	39
Chromium	ppm	ASTM D5185m >20	4	3	1
Nickel	ppm	ASTM D5185m >4	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	4	4	5
Lead	ppm	ASTM D5185m >40	14	11	4
Copper	ppm	ASTM D5185m >330	5	2	<1
Tin	ppm	ASTM D5185m >15	2	1	<1
Antimony	ppm	ASTM D5185m	---	---	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 39	16	24	114
Barium	ppm	ASTM D5185m 1	<1	0	0
Molybdenum	ppm	ASTM D5185m 49	85	63	94
Manganese	ppm	ASTM D5185m 1	<1	1	<1
Magnesium	ppm	ASTM D5185m 616	676	848	750
Calcium	ppm	ASTM D5185m 1554	1397	1363	1483
Phosphorus	ppm	ASTM D5185m 899	863	775	794
Zinc	ppm	ASTM D5185m 1069	1075	987	1016
Sulfur	ppm	ASTM D5185m 2624	2721	2490	2392

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	10	6	8
Sodium	ppm	ASTM D5185m	0	4	2
Potassium	ppm	ASTM D5185m >20	10	8	5

INFRA-RED

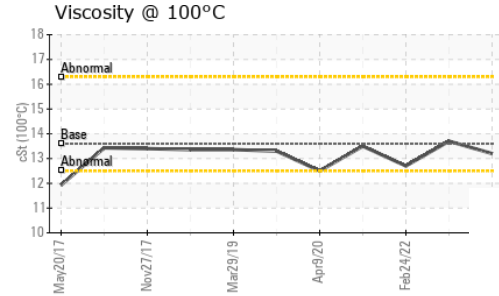
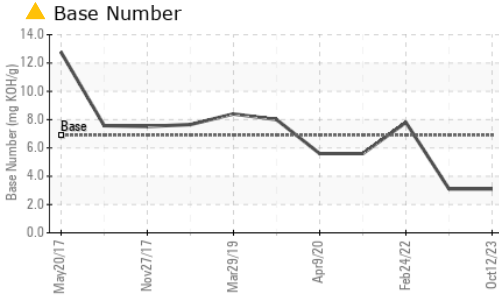
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.8	0.3	0.2
Nitration	Abs/cm	*ASTM D7624 >20	13.6	13.0	10.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	32.0	25.7	23.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	32.5	30.1	19.3
Base Number (BN)	mg KOH/g	ASTM D2896 6.9	▲ 3.1	▲ 3.1	7.8



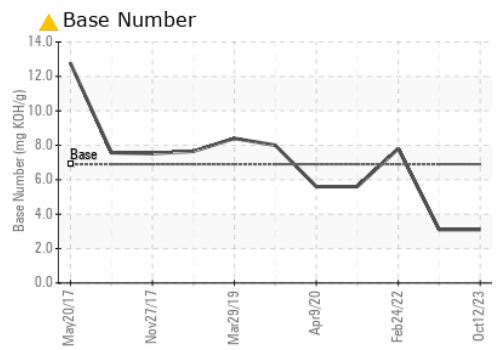
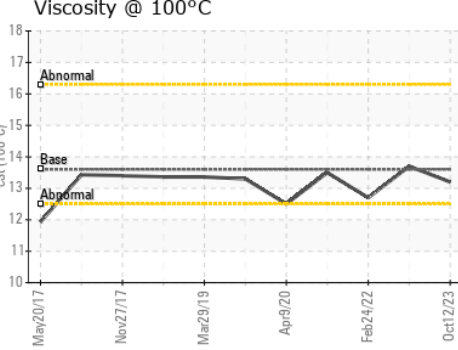
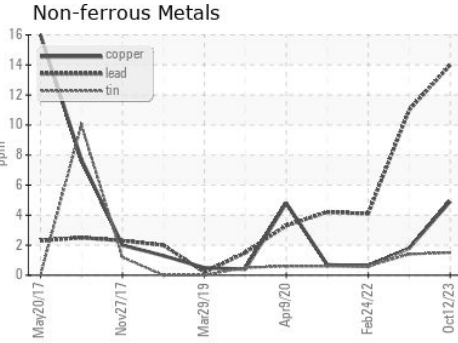
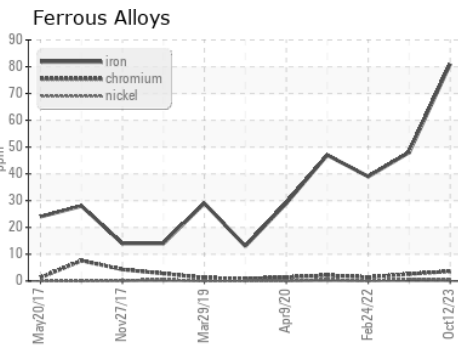
OIL ANALYSIS REPORT



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	13.6	13.2	13.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0034271 **Received** : 02 Nov 2023
Lab Number : 05996473 **Diagnosed** : 03 Nov 2023
Unique Number : 10724833 **Diagnostician** : Sean Felton
Test Package : FLEET

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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)