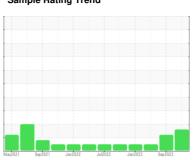


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**WEAR** 



Machine Id **5919554** 

Component **Diesel Engine** 

VALVOLINE 15W40 (--- 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

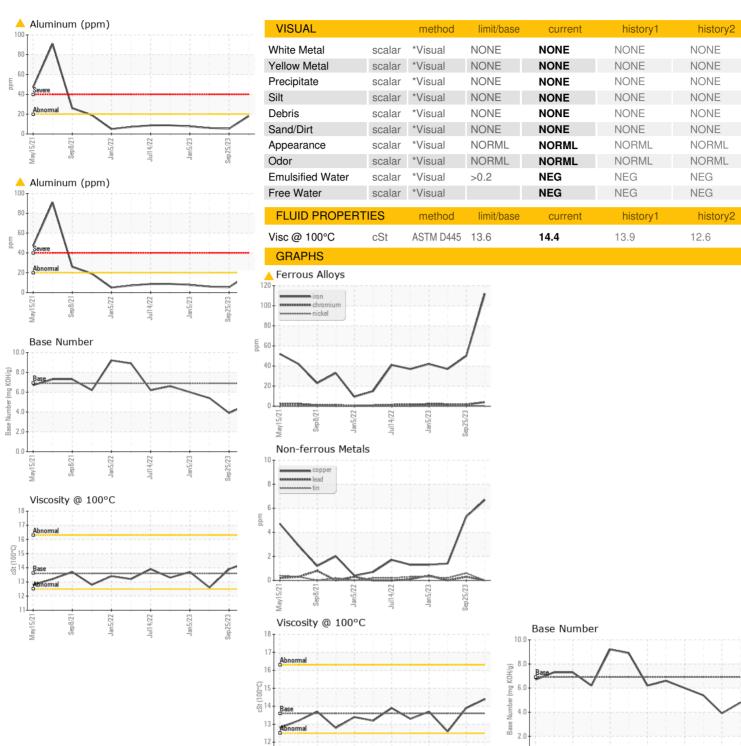
### **Fluid Condition**

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.

		May2021	Sep2021 Jan2022	Jul2022 Jan2023 S	pp2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age	mls	Client Info Client Info Client Info Client Info		IL0034216 21 Dec 2023 401183 0	IL05966144 25 Sep 2023 364012	IL05887248 20 Jun 2023 324309 0
Oil Changed Sample Status		Client Info		Changed ABNORMAL	N/A ABNORMAL	N/A NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >4	▲ 112 4 <1	50 2 <1	37 2 1
Titanium Silver Aluminum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>3 >20	0 0 <u>^</u> 18	<1 0 5	<1 0 6
Lead Copper Tin	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 7 0	<1 5 <1	0 1 <1
Vanadium Cadmium ADDITIVES	ppm	ASTM D5185m ASTM D5185m method	limit/base	0 0 current	0 0 history1	<1 0 history2
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	49	45 0 110	10 <1 65	45 0 90 <1
Magnesium Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m	616	755 1751 1116 1438	479 1010 700 844	541 1471 992 1255
Sulfur	ppm	ASTM D5185m	2624	3171	1774	2987
CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method  ASTM D5185m  ASTM D5185m  ASTM D5185m	limit/base >25 >20	13 2 14	history1 7 6 10	history2 7 1 8
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	2 17.2 37.9	1 14.0 32.7	0.5 11.3 26.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 6.9	41.4 4.8	33.5 <b>A</b> 3.9	23.1 5.4



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: IL0034216 : 06057269 : 10823218 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed : 12 Jan 2024

Jul14/22

Diagnostician : Don Baldridge

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) **TAMPA IDEALEASE** 5951 ORIENT ROAD

TAMPA, FL US 33610-9565 Contact: Russ Cook

russcook@idealease.com T: (813)626-9285 F: (844)270-1356