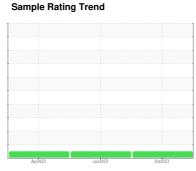


# **OIL ANALYSIS REPORT**



**NORMAL** 



Machine Id **6321408** 

Component **Diesel Engine** 

VALVOLINE 15W40 (--- GAL)

## Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the oil.

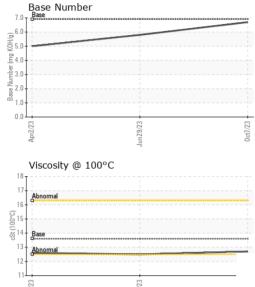
## **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Ap	2023	Jun 2023 Oct 20	123	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0034293	IL05900939	IL05815163
Sample Date		Client Info		07 Oct 2023	29 Jun 2023	02 Apr 2023
Machine Age	mls	Client Info		98284	76432	38929
Oil Age	mls	Client Info		0	37503	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	<b>J</b>	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	20	69	159
Chromium	ppm	ASTM D5185m	>20	2	5	7
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	17	14
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	16	93
Tin	ppm	ASTM D5185m	>15	<1	<1	<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	39	88	47	13
Barium	ppm	ASTM D5185m	1	0	0	0
Molybdenum	ppm	ASTM D5185m	49	70	88	58
Manganese	ppm	ASTM D5185m	1	<1	2	7
Magnesium	ppm	ASTM D5185m	616	647	549	934
Calcium	ppm	ASTM D5185m	1554	1298	1564	1473
Phosphorus	ppm	ASTM D5185m	899	865	992	789
Zinc	ppm	ASTM D5185m	1069	1062	1285	1095
Sulfur	ppm	ASTM D5185m	2624	2673	3270	2361
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	12	23
Sodium	ppm	ASTM D5185m		3	5	9
Potassium	ppm	ASTM D5185m	>20	10	39	23
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.8	1
Nitration	Abs/cm	*ASTM D7624	>20	9.5	11.6	17.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	27.0	30.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	24.7	37.4
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	6.7	5.8	5.0



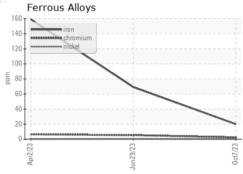
# **OIL ANALYSIS REPORT**

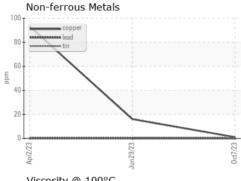


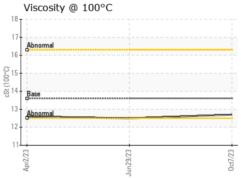
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

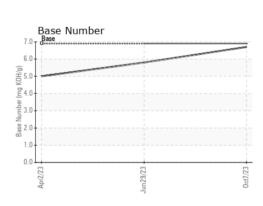
FLUID PROPERTIES		memod			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	13.6	12.7	12.5	12.6

## **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: IL0034293 : 06011969 Unique Number : 10751113

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 21 Nov 2023 Diagnostician : Wes Davis

: 20 Nov 2023

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