IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
5919554
Component
Diesel Engine
Fluid
VALVOLINE 15W40 (--- GAL)

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

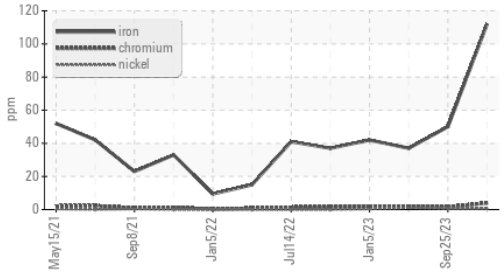
There is no indication of any contamination in the oil.

FLUID CONDITION

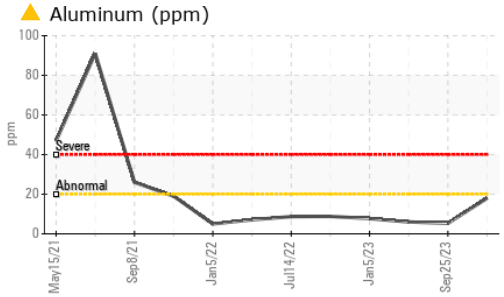
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**IL0034216**	IL05966144	IL05887248
Sample Date		Client Info		**21 Dec 2023**	25 Sep 2023	20 Jun 2023
Machine Age	mls	Client Info		**401183**	364012	324309
Oil Age	mls	Client Info		**0**	0	0
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	N/A
Filter Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	▲ **112**	50	37
Chromium	ppm	ASTM D5185m	>20	**4**	2	2
Nickel	ppm	ASTM D5185m	>4	**<1**	<1	1
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	▲ **18**	5	6
Lead	ppm	ASTM D5185m	>40	**0**	<1	0
Copper	ppm	ASTM D5185m	>330	**7**	5	1
Tin	ppm	ASTM D5185m	>15	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**13**	7	7
Potassium	ppm	ASTM D5185m	>20	**14**	10	8
Fuel		WC Method	>5	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>3	**2**	1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	**17.2**	14.0	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**37.9**	32.7	26.9
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
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**2**	6	1
Boron	ppm	ASTM D5185m	39	**45**	10	45
Barium	ppm	ASTM D5185m	1	**0**	<1	0
Molybdenum	ppm	ASTM D5185m	49	**110**	65	90
Manganese	ppm	ASTM D5185m	1	**0**	1	<1
Magnesium	ppm	ASTM D5185m	616	**755**	479	541
Calcium	ppm	ASTM D5185m	1554	**1751**	1010	1471
Phosphorus	ppm	ASTM D5185m	899	**1116**	700	992
Zinc	ppm	ASTM D5185m	1069	**1438**	844	1255
Sulfur	ppm	ASTM D5185m	2624	**3171**	1774	2987
Oxidation	Abs/.1mm	*ASTM D7414	>25	**41.4**	33.5	23.1
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	**4.8**	▲ 3.9	5.4
Visc @ 100°C	cSt	ASTM D445	13.6	**14.4**	13.9	12.6

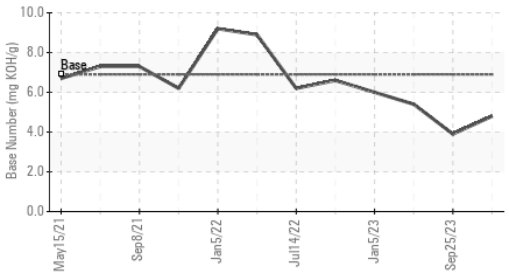
Ferrous Alloys



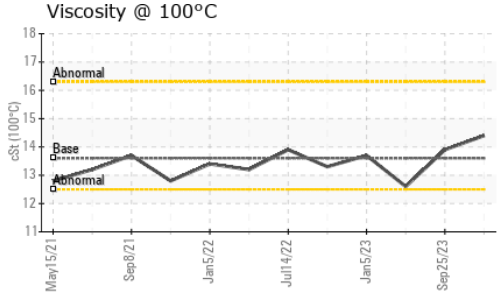
Aluminum (ppm)



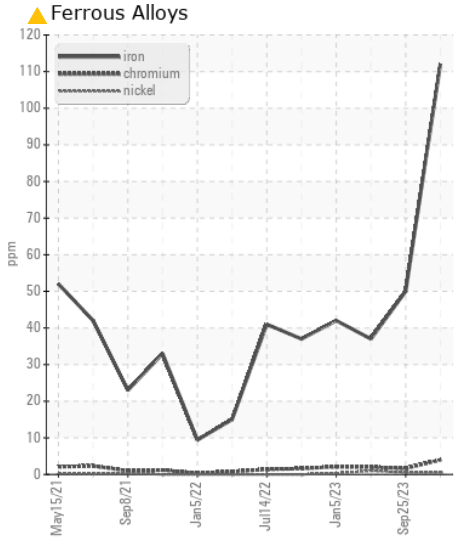
Base Number



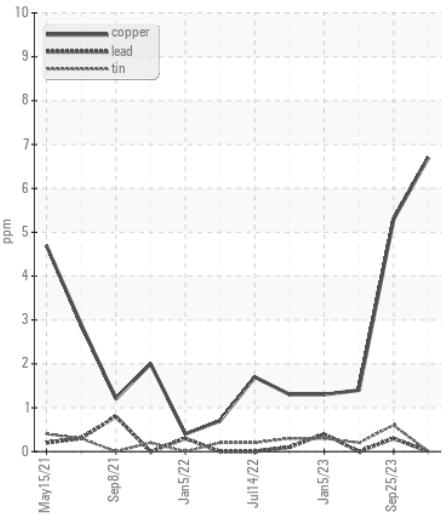
Viscosity @ 100°C



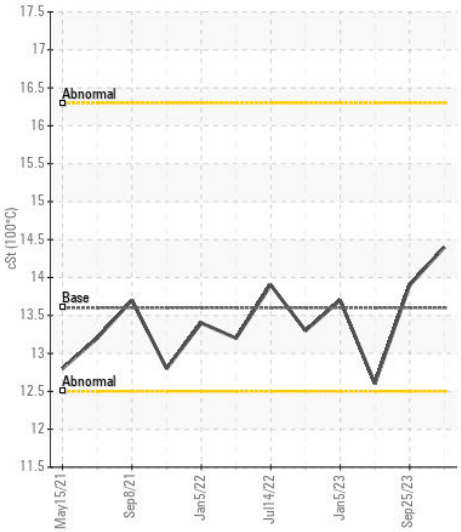
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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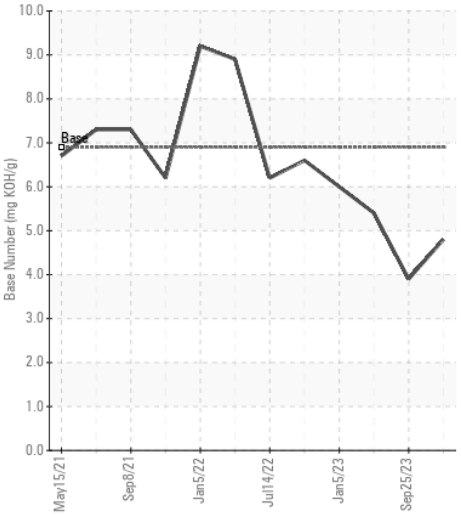

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0034216 **Recieved** : 10 Jan 2024
Lab Number : 06057269 **Diagnosed** : 12 Jan 2024
Unique Number : 10823218 **Diagnostician** : Don Baldridge
Test Package : FLEET

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)

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