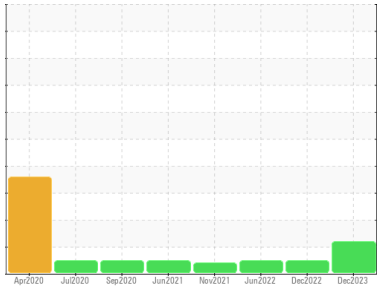
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
INTERNATIONAL 8017418
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. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**IL0034275**	IL05715693	IL05597811
Sample Date		Client Info		**14 Dec 2023**	07 Dec 2022	23 Jun 2022
Machine Age	mls	Client Info		**403861**	326301	279587
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	NORMAL

CONTAMINATION		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	**42**	34	53
Chromium	ppm	ASTM D5185m	>20	**2**	2	3
Nickel	ppm	ASTM D5185m	>4	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>20	**6**	5	7
Lead	ppm	ASTM D5185m	>40	**7**	12	10
Copper	ppm	ASTM D5185m	>330	**1**	1	1
Tin	ppm	ASTM D5185m	>15	**2**	1	1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	39	**25**	12	20
Barium	ppm	ASTM D5185m	1	**0**	0	0
Molybdenum	ppm	ASTM D5185m	49	**88**	66	72
Manganese	ppm	ASTM D5185m	1	**<1**	<1	1
Magnesium	ppm	ASTM D5185m	616	**621**	730	724
Calcium	ppm	ASTM D5185m	1554	**1485**	1331	1307
Phosphorus	ppm	ASTM D5185m	899	**991**	798	736
Zinc	ppm	ASTM D5185m	1069	**1266**	1029	935
Sulfur	ppm	ASTM D5185m	2624	**3084**	2934	2807

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**7**	7	6
Sodium	ppm	ASTM D5185m		**2**	1	2
Potassium	ppm	ASTM D5185m	>20	**5**	<1	8

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.6**	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	**11.0**	13.8	14.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	**29.6**	30.7	29.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**27.8**	30.1	28.6
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	▲ **3.2**	4.6	5.3

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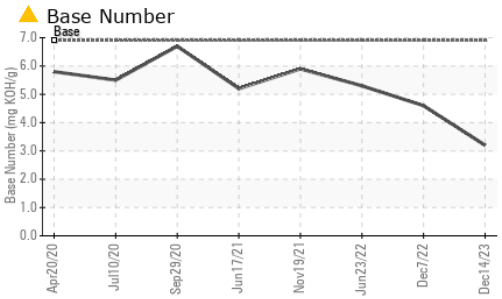
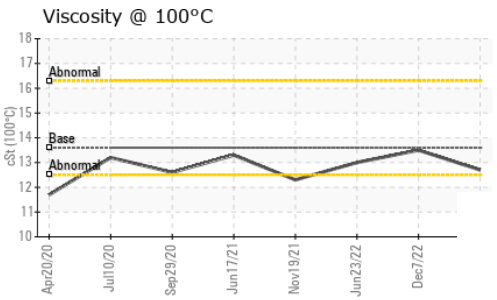
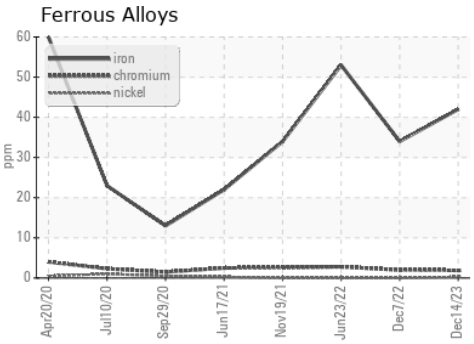


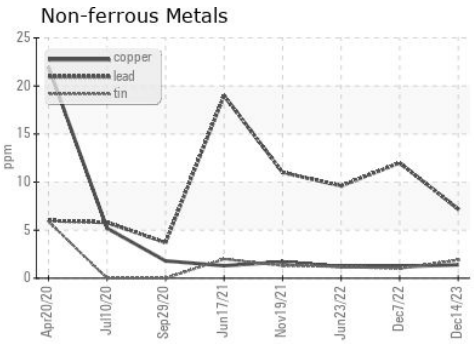


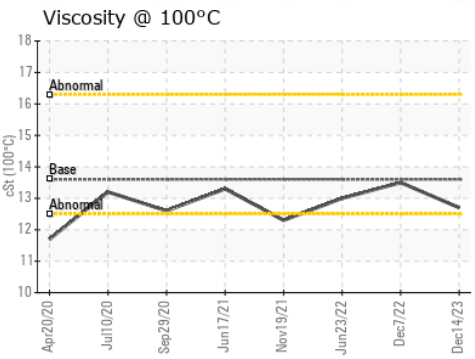
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

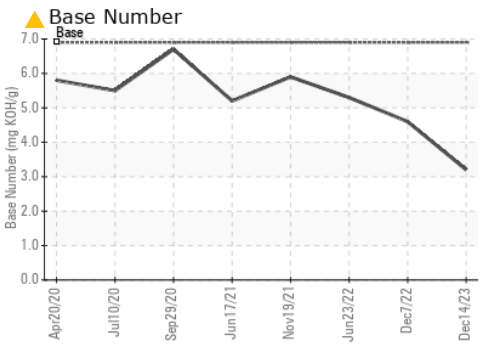
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.6	**12.7**	13.5	13.0

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0034275
Lab Number : 06058959
Unique Number : 10830341
Test Package : FLEET

Recieved : 12 Jan 2024
Diagnosed : 15 Jan 2024
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)

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