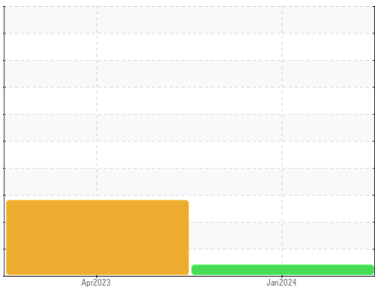
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
INTERNATIONAL 441418
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (20 QTS)

DIAGNOSIS

▲ Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

▲ Fluid Condition
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**IL0030573**	IL0026564	---
Sample Date		Client Info		**04 Jan 2024**	27 Apr 2023	---
Machine Age	hrs	Client Info		**32269**	0	---
Oil Age	hrs	Client Info		**32269**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ATTENTION**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol		WC Method		**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	**53**	68	---
Chromium	ppm	ASTM D5185m	>20	**3**	4	---
Nickel	ppm	ASTM D5185m	>2	**0**	<1	---
Titanium	ppm	ASTM D5185m	>2	**<1**	<1	---
Silver	ppm	ASTM D5185m	>2	**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**74**	89	---
Lead	ppm	ASTM D5185m	>40	**0**	<1	---
Copper	ppm	ASTM D5185m	>330	**10**	74	---
Tin	ppm	ASTM D5185m	>15	**<1**	<1	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**7**	24	---
Barium	ppm	ASTM D5185m	0	**<1**	2	---
Molybdenum	ppm	ASTM D5185m	0	**63**	53	---
Manganese	ppm	ASTM D5185m		**2**	5	---
Magnesium	ppm	ASTM D5185m	0	**974**	761	---
Calcium	ppm	ASTM D5185m		**1041**	1208	---
Phosphorus	ppm	ASTM D5185m		**1005**	653	---
Zinc	ppm	ASTM D5185m		**1214**	880	---
Sulfur	ppm	ASTM D5185m		**3246**	2270	---

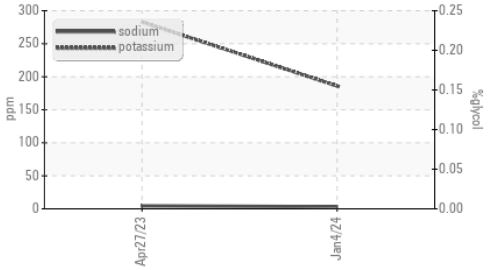
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**11**	▲ 26	---
Sodium	ppm	ASTM D5185m		**3**	4	---
Potassium	ppm	ASTM D5185m	>20	**186**	283	---
Fuel	%	ASTM D3524	>3.0	**<1.0**	▲ 2.5	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	**0.4**	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	**8.0**	10.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.6**	19.4	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**17.2**	18.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	**8.3**	6.3	---

OIL ANALYSIS REPORT

Glycol Contamination

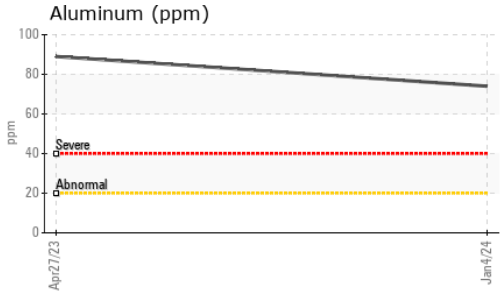


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	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	---

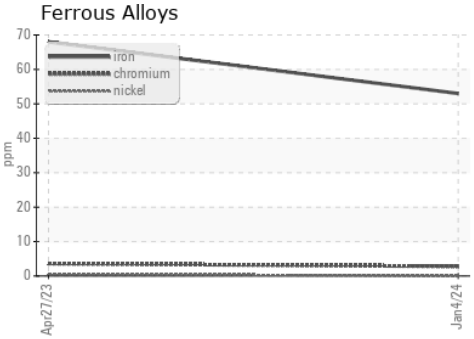
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14	▲ **11.9**	▲ 11.1	---

GRAPHS

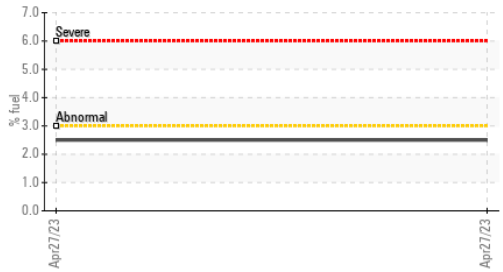
Aluminum (ppm)



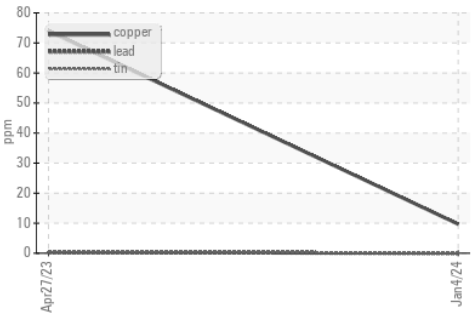
Ferrous Alloys



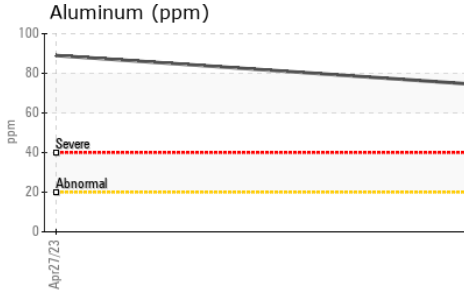
Fuel Dilution



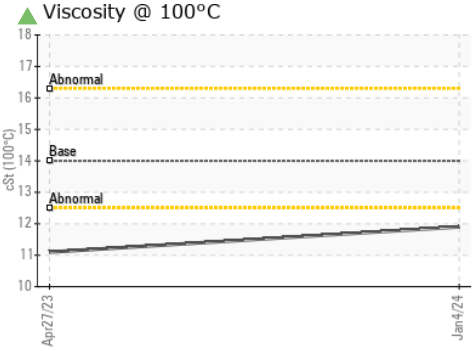
Non-ferrous Metals



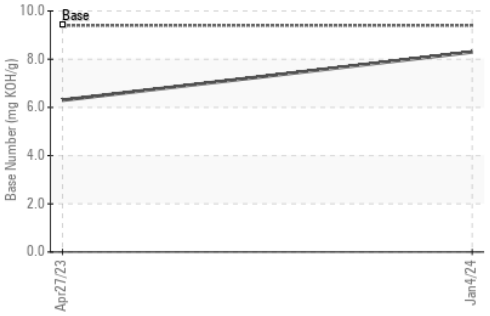
Aluminum (ppm)



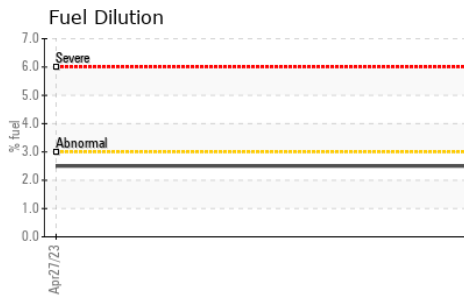
▲ Viscosity @ 100°C



Base Number



Fuel Dilution



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0030573 **Recieved** : 18 Jan 2024
Lab Number : 06064823 **Diagnosed** : 22 Jan 2024
Unique Number : 10836205 **Diagnostician** : Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

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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