IDEALEASE FLEET

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
7716L
Component
Front Diesel Engine
Fluid
MOBIL 15W40 (--- QTS)

RECOMMENDATION

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

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

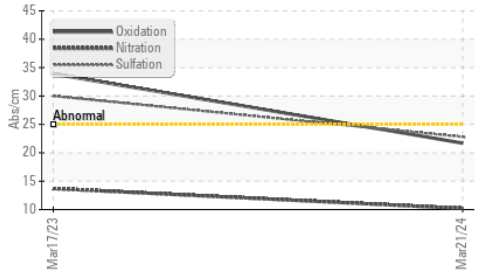
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

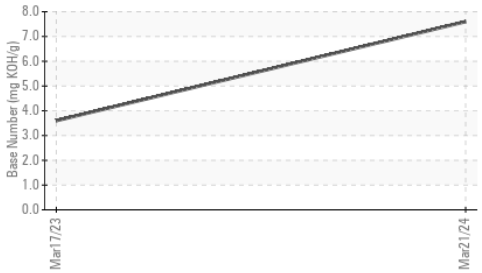
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0032481	IL0028912	---
Sample Date		Client Info		21 Mar 2024	17 Mar 2023	---
Machine Age	mls	Client Info		35123	23213	---
Oil Age	mls	Client Info		40000	23213	---
Filter Age	mls	Client Info		40000	23213	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	MARGINAL	---
Iron	ppm	ASTM D5185m	>100	36	100	---
Chromium	ppm	ASTM D5185m	>20	<1	3	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	4	9	---
Lead	ppm	ASTM D5185m	>40	3	6	---
Copper	ppm	ASTM D5185m	>330	4	36	---
Tin	ppm	ASTM D5185m	>15	1	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	11	43	---
Potassium	ppm	ASTM D5185m	>20	11	29	---
Fuel		WC Method	>5	<1.0	▲ 3.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	10.2	13.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	30.0	---
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	---
Sodium	ppm	ASTM D5185m	>118	2	3	---
Boron	ppm	ASTM D5185m		7	31	---
Barium	ppm	ASTM D5185m		0	2	---
Molybdenum	ppm	ASTM D5185m		61	64	---
Manganese	ppm	ASTM D5185m		1	5	---
Magnesium	ppm	ASTM D5185m		891	420	---
Calcium	ppm	ASTM D5185m		1139	1754	---
Phosphorus	ppm	ASTM D5185m		1075	965	---
Zinc	ppm	ASTM D5185m		1250	1216	---
Sulfur	ppm	ASTM D5185m		3691	2773	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	33.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	3.6	---
Visc @ 100°C	cSt	ASTM D445		13.0	▲ 12.3	---

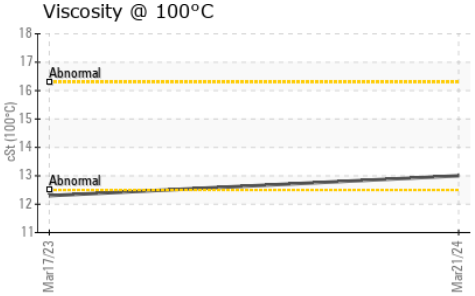
FT-IR (Direct Trend)



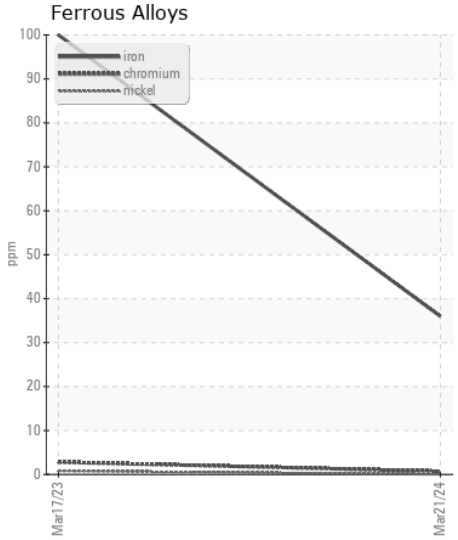
Base Number



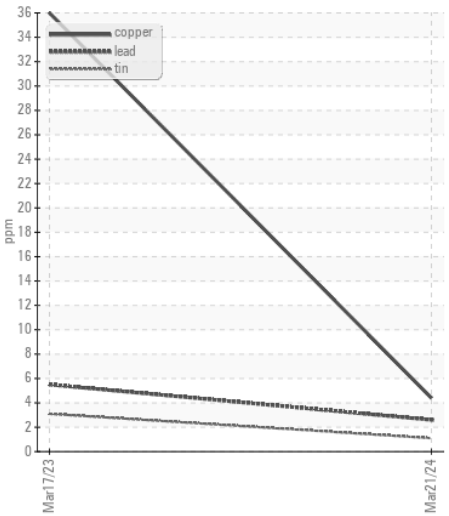
Viscosity @ 100°C



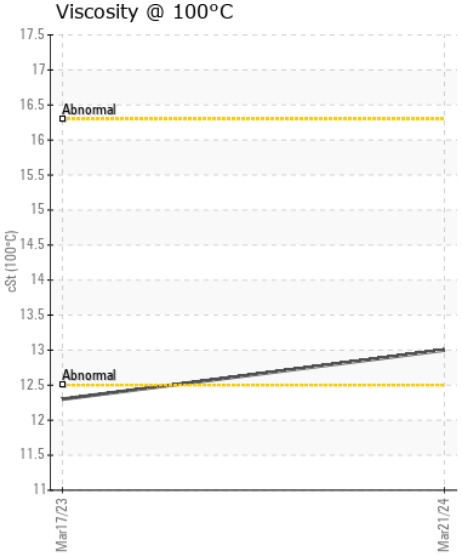
Ferrous Alloys



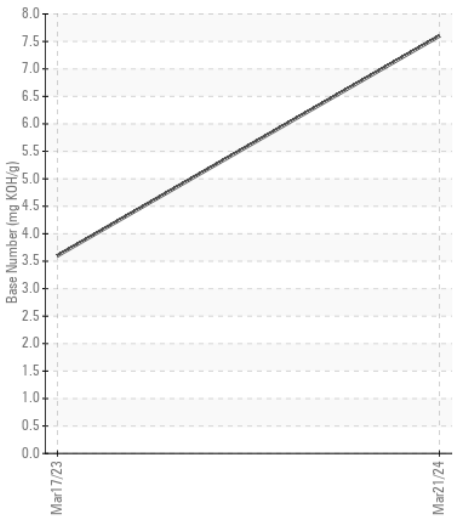
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0032481
Lab Number : 06175157
Unique Number : 11021210
Test Package : FLEET

Received : 10 May 2024
Tested : 11 May 2024
Diagnosed : 11 May 2024 - Wes Davis

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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