



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
ATTENTION

Machine Id
846-5129
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (--- QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0018083	RPL0016009	---
Sample Date		Client Info		07 Mar 2024	12 Dec 2023	---
Machine Age	mls	Client Info		0	0	---
Oil Age	mls	Client Info		38800	15236	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	60	33	---
Chromium	ppm	ASTM D5185m	>20	2	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	18	8	---
Lead	ppm	ASTM D5185m	>40	5	2	---
Copper	ppm	ASTM D5185m	>330	25	22	---
Tin	ppm	ASTM D5185m	>15	4	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

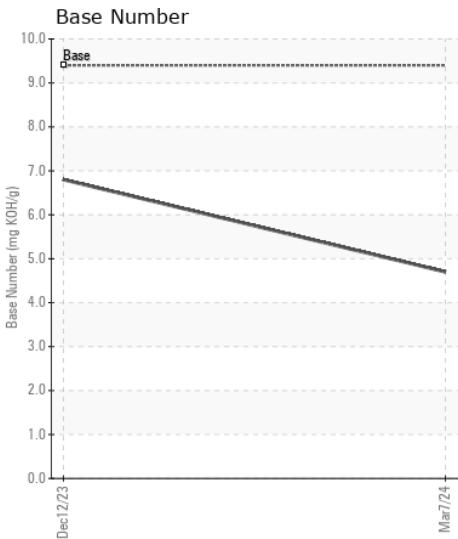
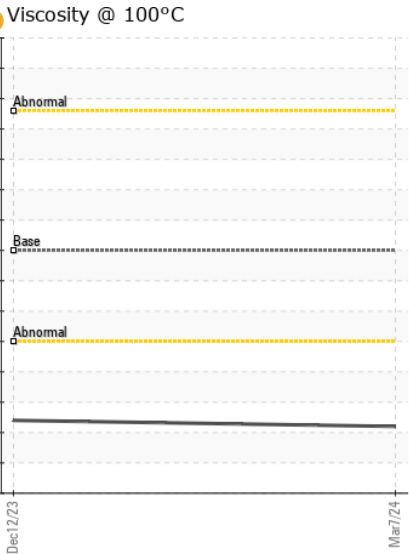
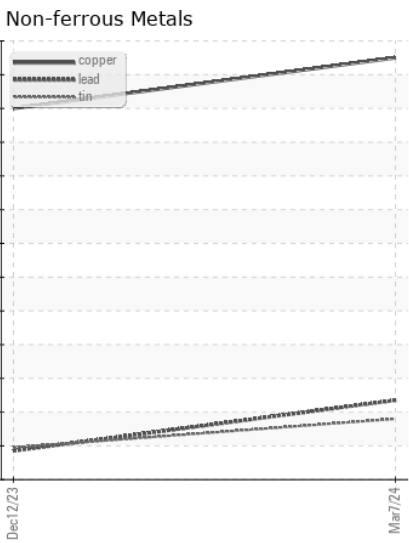
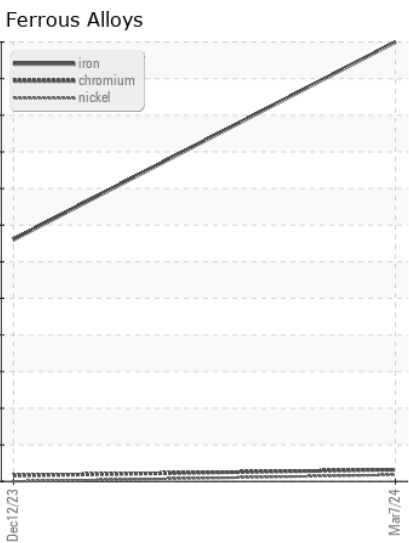
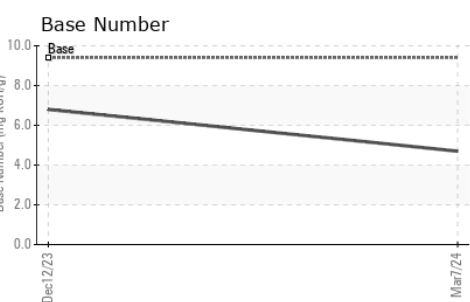
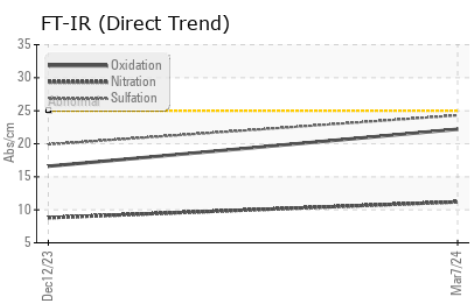
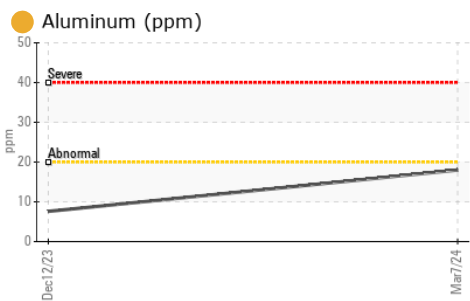
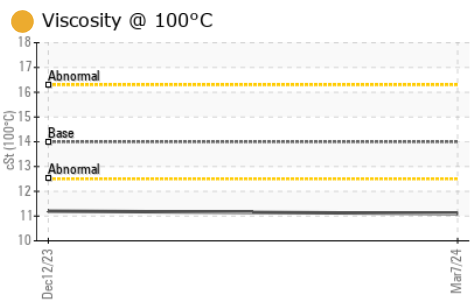
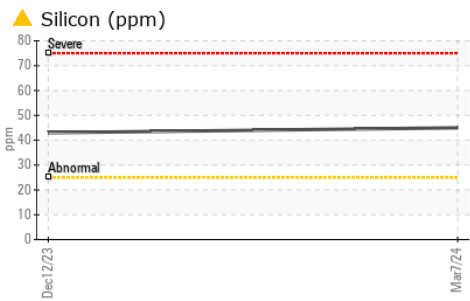
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>25	45	43	---
Potassium	ppm	ASTM D5185m	>20	70	36	---
Fuel		WC Method	>5	<1.0	1.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	11.2	8.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	19.9	---
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	---

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.

Sodium	ppm	ASTM D5185m		7	6	---
Boron	ppm	ASTM D5185m	0	23	52	---
Barium	ppm	ASTM D5185m	0	6	5	---
Molybdenum	ppm	ASTM D5185m	0	12	11	---
Manganese	ppm	ASTM D5185m		6	4	---
Magnesium	ppm	ASTM D5185m	0	756	727	---
Calcium	ppm	ASTM D5185m		1405	1344	---
Phosphorus	ppm	ASTM D5185m		722	715	---
Zinc	ppm	ASTM D5185m		838	808	---
Sulfur	ppm	ASTM D5185m		3023	2789	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.2	16.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	4.7	6.8	---
Visc @ 100°C	cSt	ASTM D445	14	11.1	11.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0018083
Lab Number : 06145645
Unique Number : 10970453
Test Package : FLEET

Received : 11 Apr 2024
Tested : 12 Apr 2024
Diagnosed : 14 Apr 2024 - Don Baldrige

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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)