



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
MACK FL-26
Component
Diesel Engine
Fluid
GIBRALTAR 15W/40 SUPER S-3 LX (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0941105	WC0875551	---
Sample Date		Client Info		25 Jun 2024	20 Mar 2024	---
Machine Age	hrs	Client Info		23943	23290	---
Oil Age	hrs	Client Info		600	0	---
Filter Age	hrs	Client Info		600	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>120	21	8	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	1	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>40	4	2	---
Copper	ppm	ASTM D5185m	>330	<1	1	---
Tin	ppm	ASTM D5185m	>15	0	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

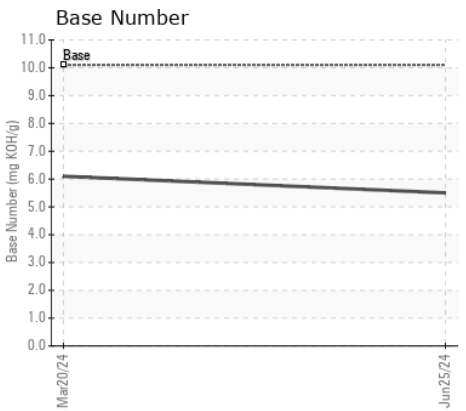
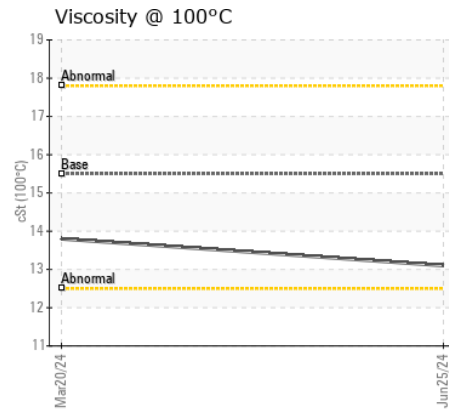
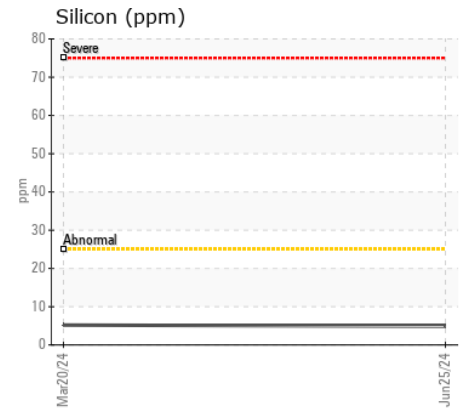
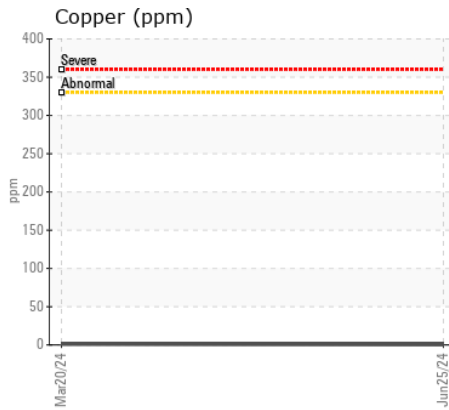
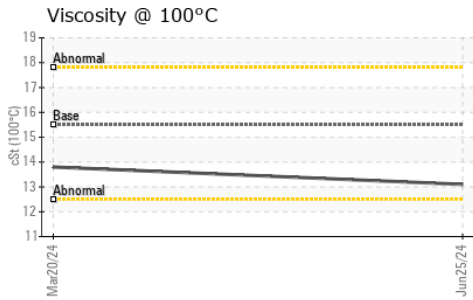
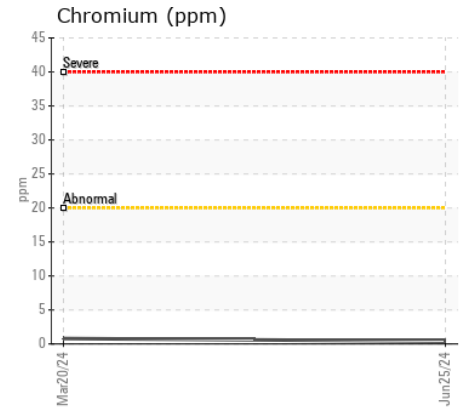
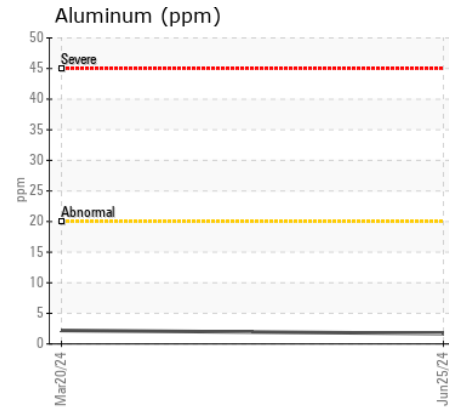
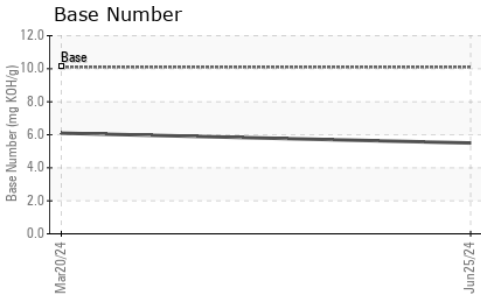
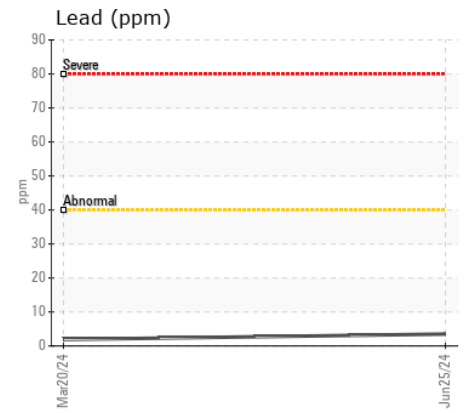
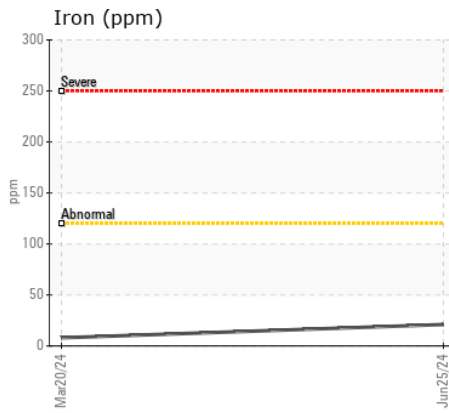
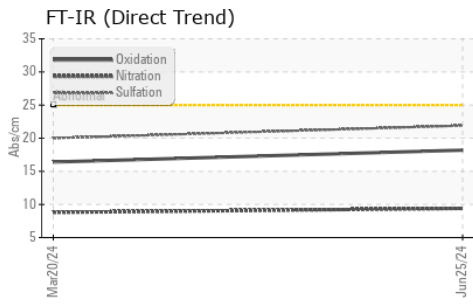
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	5	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.3	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	20.0	---
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	---

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.

Sodium	ppm	ASTM D5185m		8	2	---
Boron	ppm	ASTM D5185m		5	6	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m	66	65	79	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m	1000	784	807	---
Calcium	ppm	ASTM D5185m	1050	1188	1160	---
Phosphorus	ppm	ASTM D5185m	1150	948	922	---
Zinc	ppm	ASTM D5185m	1270	1091	1150	---
Sulfur	ppm	ASTM D5185m		2884	3128	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	16.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.5	6.1	---
Visc @ 100°C	cSt	ASTM D445	15.5	13.1	13.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0941105 **Received** : 18 Jul 2024
Lab Number : 06239948 **Tested** : 18 Jul 2024
Unique Number : 11128782 **Diagnosed** : 18 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

OAKRIDGE WASTE
 307 WHITE ST
 DANBURY, CT
 US 06810

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: CHRIS CONTI
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* - 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)