



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(AU-40675)

Machine Id

MACK RH-17

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0941104	WC0875375	---
Sample Date		Client Info		24 Jun 2024	26 Apr 2024	---
Machine Age	hrs	Client Info		1999	1581	---
Oil Age	hrs	Client Info		600	600	---
Filter Age	hrs	Client Info		600	600	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>120	70	▲ 263	---
Chromium	ppm	ASTM D5185m	>20	3	6	---
Nickel	ppm	ASTM D5185m	>5	<1	2	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	3	8	---
Lead	ppm	ASTM D5185m	>40	1	1	---
Copper	ppm	ASTM D5185m	>330	12	84	---
Tin	ppm	ASTM D5185m	>15	0	2	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

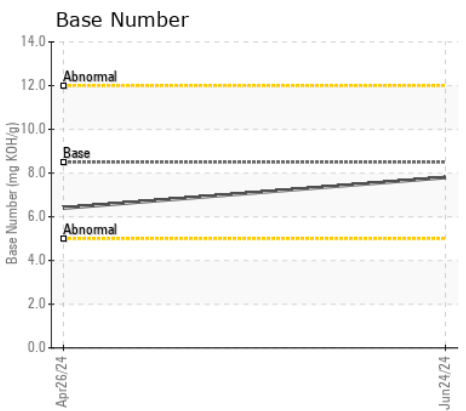
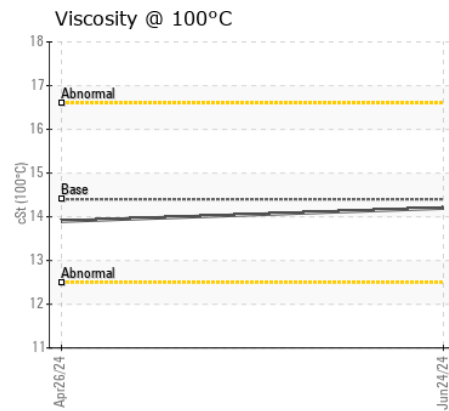
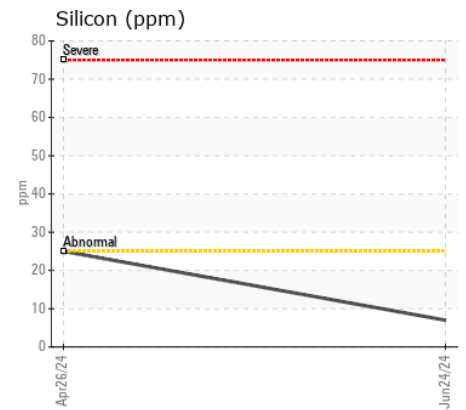
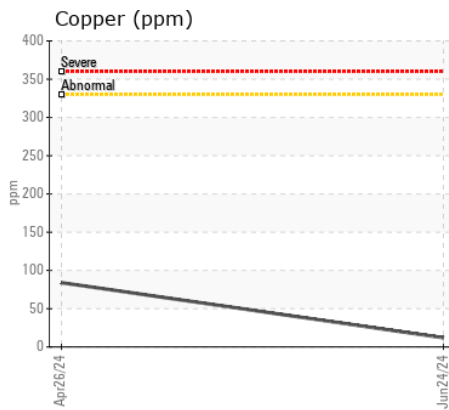
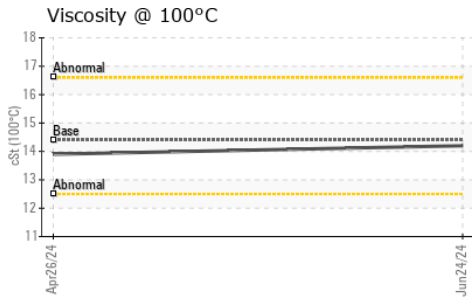
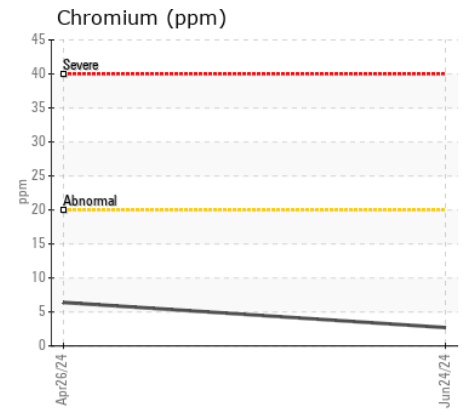
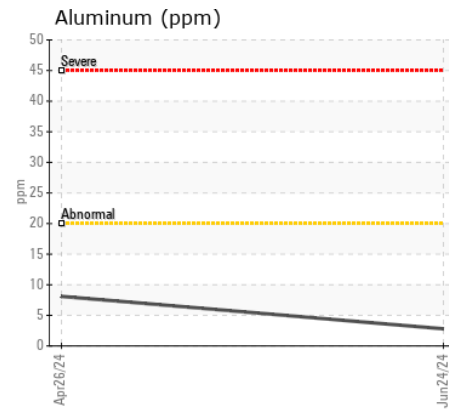
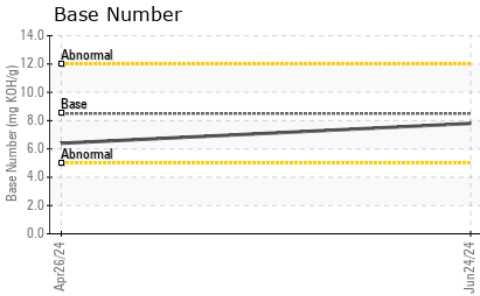
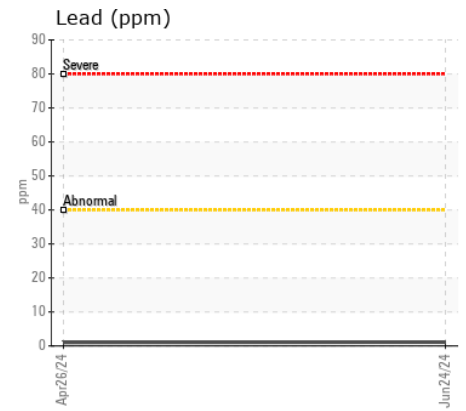
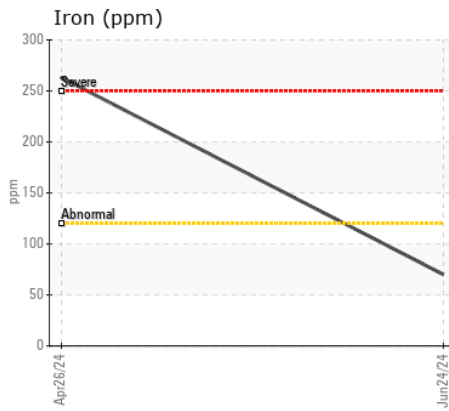
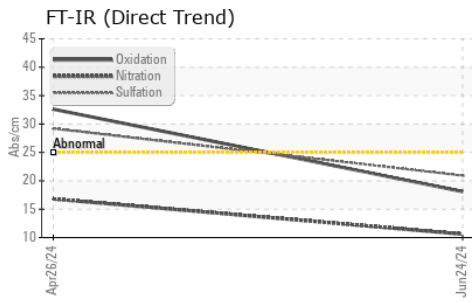
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	25	---
Potassium	ppm	ASTM D5185m	>20	3	10	---
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	1.2	2.1	---
Nitration	Abs/cm	*ASTM D7624	>20	10.6	16.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	29.2	---
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	>216	3	4	---
Boron	ppm	ASTM D5185m	250	9	25	---
Barium	ppm	ASTM D5185m	10	<1	2	---
Molybdenum	ppm	ASTM D5185m	100	58	50	---
Manganese	ppm	ASTM D5185m		2	8	---
Magnesium	ppm	ASTM D5185m	450	738	600	---
Calcium	ppm	ASTM D5185m	3000	1231	1404	---
Phosphorus	ppm	ASTM D5185m	1150	929	748	---
Zinc	ppm	ASTM D5185m	1350	1057	960	---
Sulfur	ppm	ASTM D5185m	4250	2953	2371	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	32.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.8	6.4	---
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	13.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0941104 **Received** : 18 Jul 2024
Lab Number : 06239947 **Tested** : 18 Jul 2024
Unique Number : 11128781 **Diagnosed** : 18 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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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)