

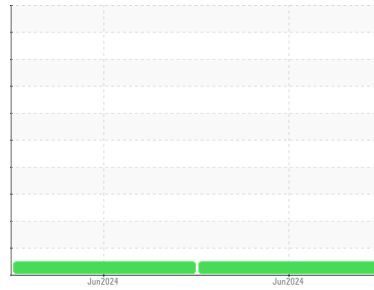


OIL ANALYSIS REPORT



Machine Id
MACK 425116 (S/N 1M2AX13C3FM027864)
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0109552	GFL0109554	---
Sample Date	Client Info		21 Jun 2024	18 Jun 2024	---
Machine Age	hrs	Client Info	3866	3866	---
Oil Age	hrs	Client Info	600	600	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>120	19	5	---
Chromium	ppm	ASTM D5185(m)	>20	<1	0	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	<1	0	---
Aluminum	ppm	ASTM D5185(m)	>20	3	1	---
Lead	ppm	ASTM D5185(m)	>40	0	0	---
Copper	ppm	ASTM D5185(m)	>330	2	3	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Antimony	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	35	80	141	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	0	---
Manganese	ppm	ASTM D5185(m)	0	<1	0	---
Magnesium	ppm	ASTM D5185(m)	10	12	12	---
Calcium	ppm	ASTM D5185(m)	2340	2306	1992	---
Phosphorus	ppm	ASTM D5185(m)	1110	966	911	---
Zinc	ppm	ASTM D5185(m)	1210	1176	1109	---
Sulfur	ppm	ASTM D5185(m)	3890	2930	2789	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	3	2	---
Sodium	ppm	ASTM D5185(m)		14	3	---
Potassium	ppm	ASTM D5185(m)	>20	25	3	---
Glycol	%	ASTM D7922*		0.0	NEG	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>4	0.4	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.8	8.6	---
Sulfation	Abs./1mm	ASTM D7415*	>30	24.1	21.8	---

