



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Machine Id
MACK 1242322
Component
Diesel Engine
Fluid
SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a components first oil change.

CONTAMINATION

Fuel content negligible. 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

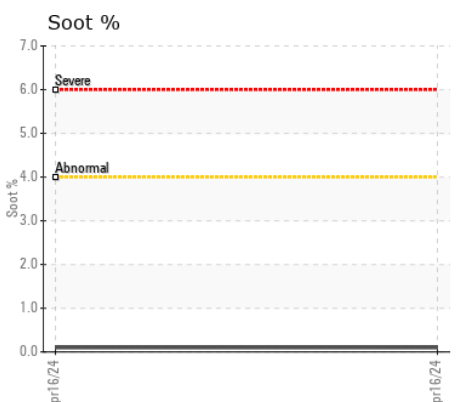
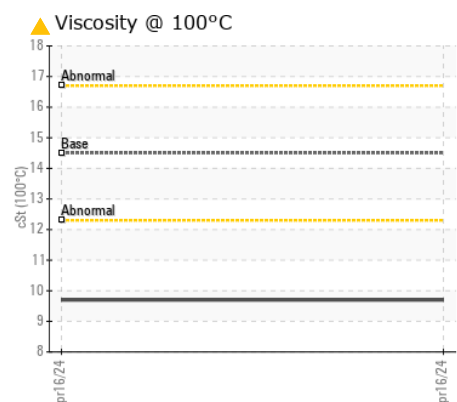
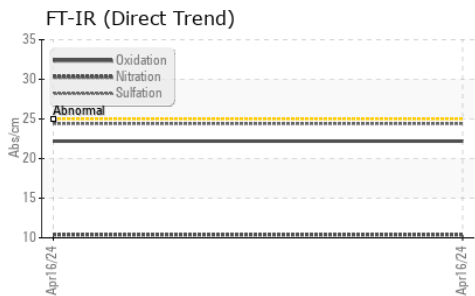
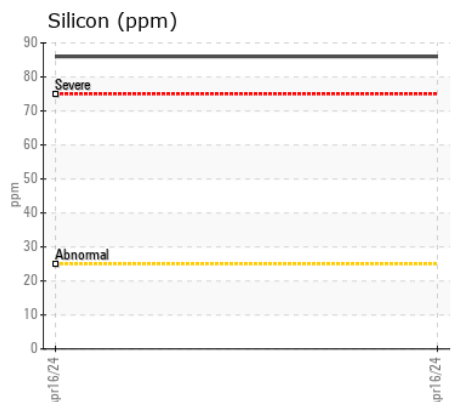
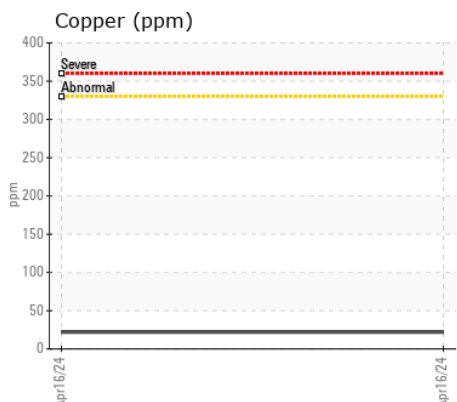
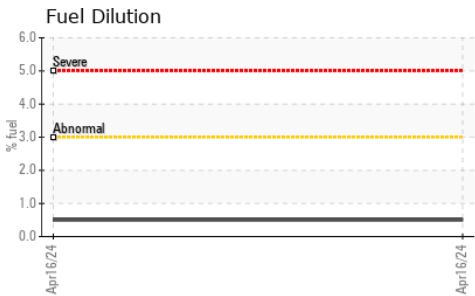
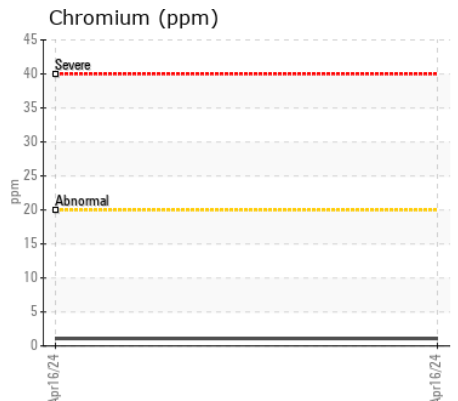
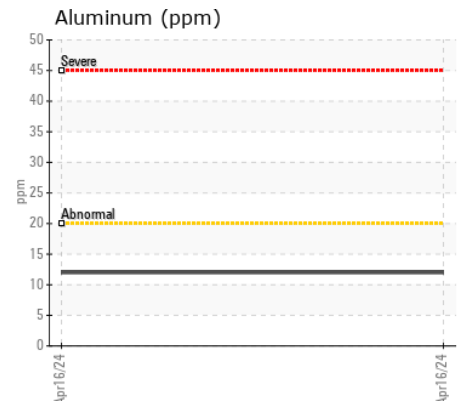
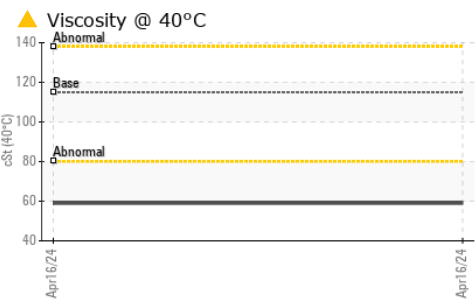
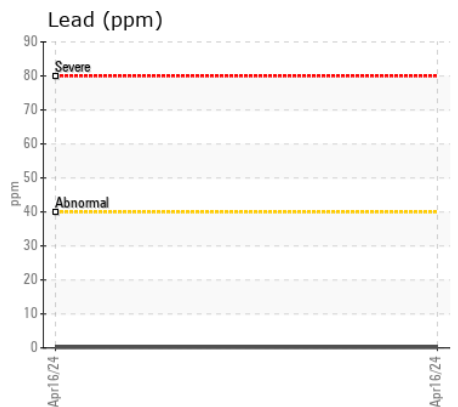
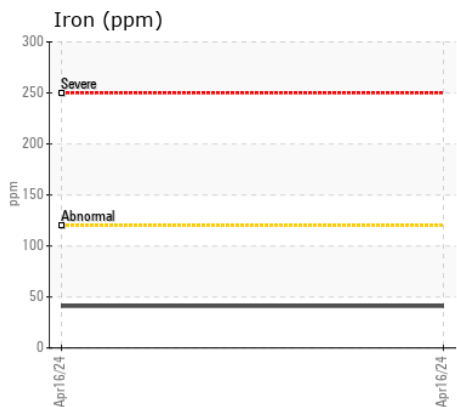
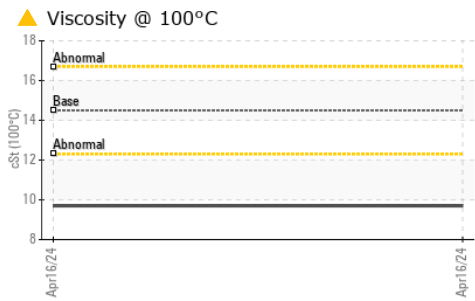
Viscosity of sample indicates oil is within SAE 5W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088744	---	---
Sample Date		Client Info		16 Apr 2024	---	---
Machine Age	kms	Client Info		15000	---	---
Oil Age	kms	Client Info		15000	---	---
Filter Age	kms	Client Info		15000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

Iron	ppm	ASTM D5185(m)	>120	41	---	---
Chromium	ppm	ASTM D5185(m)	>20	1	---	---
Nickel	ppm	ASTM D5185(m)	>5	10	---	---
Titanium	ppm	ASTM D5185(m)	>2	<1	---	---
Silver	ppm	ASTM D5185(m)	>2	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>20	12	---	---
Lead	ppm	ASTM D5185(m)	>40	<1	---	---
Copper	ppm	ASTM D5185(m)	>330	22	---	---
Tin	ppm	ASTM D5185(m)	>15	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

Silicon	ppm	ASTM D5185(m)	>25	86	---	---
Potassium	ppm	ASTM D5185(m)	>20	31	---	---
Fuel	%	ASTM D7593*	>3.0	0.5	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>4	0.1	---	---
Nitration	Abs/cm	ASTM D7624*	>20	10.4	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

Sodium	ppm	ASTM D5185(m)	>57	3	---	---
Boron	ppm	ASTM D5185(m)		205	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		109	---	---
Manganese	ppm	ASTM D5185(m)		5	---	---
Magnesium	ppm	ASTM D5185(m)		622	---	---
Calcium	ppm	ASTM D5185(m)		1478	---	---
Phosphorus	ppm	ASTM D5185(m)		680	---	---
Zinc	ppm	ASTM D5185(m)		803	---	---
Sulfur	ppm	ASTM D5185(m)		1933	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.2	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	▲ 59.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	▲ 9.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	128	148	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088744 **Received** : 19 Apr 2024
Lab Number : 02630160 **Tested** : 22 Apr 2024
Unique Number : 5763292 **Diagnosed** : 22 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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