

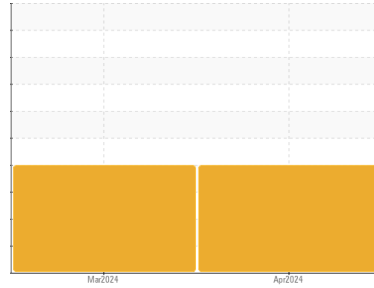
OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Area
TRUCK
Machine Id
MACK GL1713 1016
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a severe level of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA06140606	PCA0064495	---
Sample Date	Client Info			04 Apr 2024	30 Mar 2024	---
Machine Age	hrs	Client Info		0	19081	---
Oil Age	hrs	Client Info		0	340	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				SEVERE	SEVERE	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	32	30	---
Chromium	ppm	ASTM D5185m	>20	1	1	---
Nickel	ppm	ASTM D5185m	>5	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	8	5	---
Lead	ppm	ASTM D5185m	>40	2	3	---
Copper	ppm	ASTM D5185m	>330	3	3	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		<1	<1	---

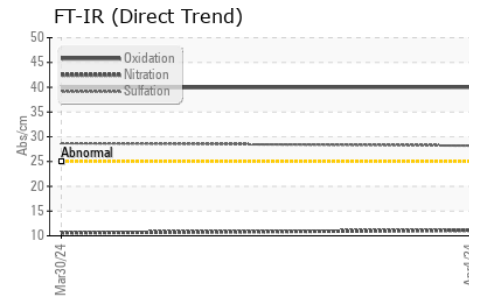
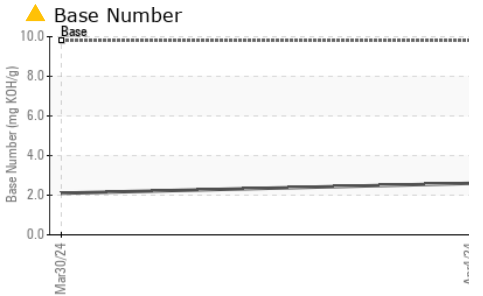
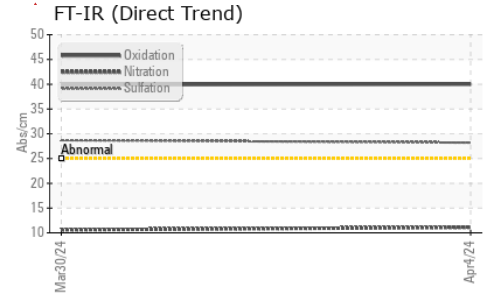
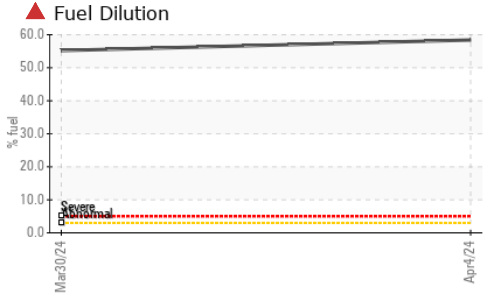
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		24	24	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		368	353	---
Calcium	ppm	ASTM D5185m		467	492	---
Phosphorus	ppm	ASTM D5185m		446	439	---
Zinc	ppm	ASTM D5185m		511	509	---
Sulfur	ppm	ASTM D5185m		1290	1254	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	8	---
Sodium	ppm	ASTM D5185m		<1	2	---
Potassium	ppm	ASTM D5185m	>20	4	3	---
Fuel	%	ASTM D3524	>3.0	▲ 58.4	▲ 55.2	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	11.1	10.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2	28.7	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	40.0	39.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	▲ 2.6	▲ 2.1	---

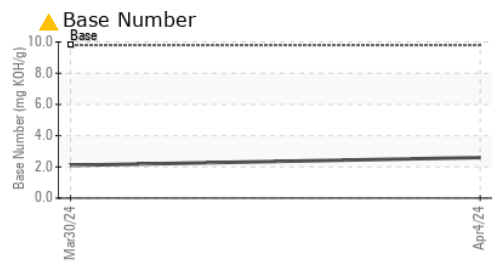
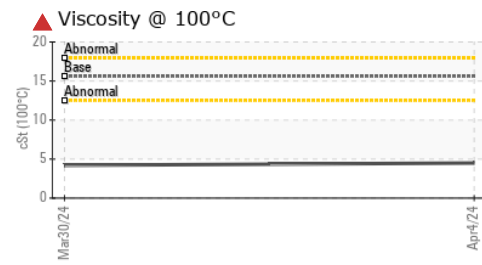
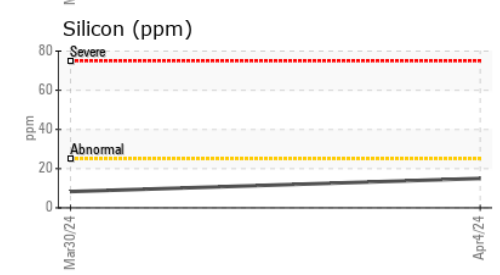
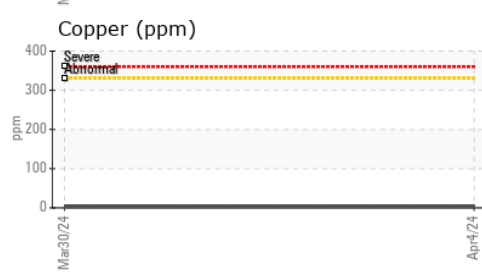
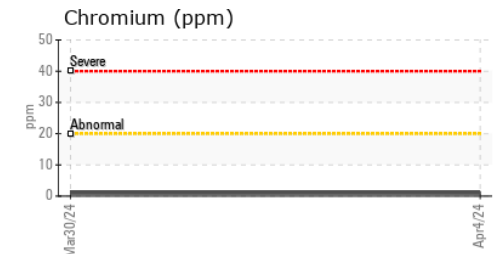
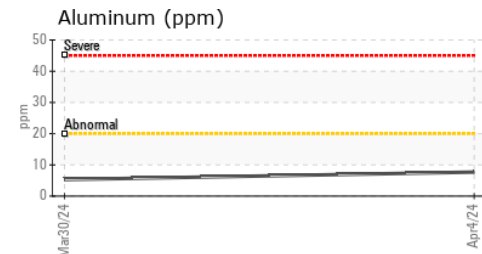
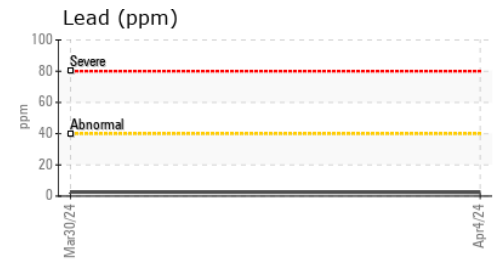
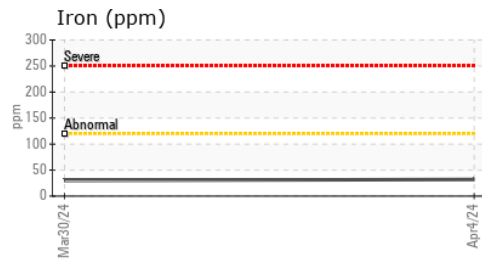
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6 ▲ 4.5	▲ 4.2	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA06140606 **Received** : 05 Apr 2024
Lab Number : 06140606 **Tested** : 09 Apr 2024
Unique Number : 10965414 **Diagnosed** : 09 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

D-CONSTRUCTION
 1488 S BROADWAY
 COAL CITY, IL
 US 60416
 Contact: J. MASCOLO
 J.MASCOLO@DCONSTRUCTION.COM

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)