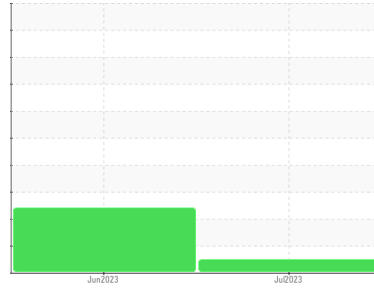


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
MACK E7-350 1W141480

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number	Client Info		PCA0100309	PCA0100300	---
Sample Date	Client Info		06 Jul 2023	02 Jun 2023	---
Machine Age	hrs	Client Info	35283	35120	---
Oil Age	hrs	Client Info	163	600	---
Oil Changed	Client Info		Not Chngd	Changed	---
Sample Status			NORMAL	SEVERE	---

CONTAMINATION

	method	limit/base	current	history 1	history 2
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >120	6	73	---
Chromium	ppm	ASTM D5185m >20	<1	2	---
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	1	<1	---
Lead	ppm	ASTM D5185m >40	<1	6	---
Copper	ppm	ASTM D5185m >330	<1	10	---
Tin	ppm	ASTM D5185m >15	<1	4	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	11	3	---
Barium	ppm	ASTM D5185m	0	2	---
Molybdenum	ppm	ASTM D5185m	59	75	---
Manganese	ppm	ASTM D5185m	<1	1	---
Magnesium	ppm	ASTM D5185m	931	1091	---
Calcium	ppm	ASTM D5185m	1070	1234	---
Phosphorus	ppm	ASTM D5185m	952	1181	---
Zinc	ppm	ASTM D5185m	1199	1450	---
Sulfur	ppm	ASTM D5185m	3661	3957	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	2	11	---
Sodium	ppm	ASTM D5185m	<1	4	---
Potassium	ppm	ASTM D5185m >20	3	1	---
Fuel	%	ASTM D3524 >3.0	1.4	10.2	---

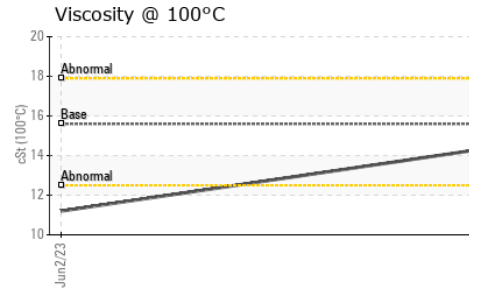
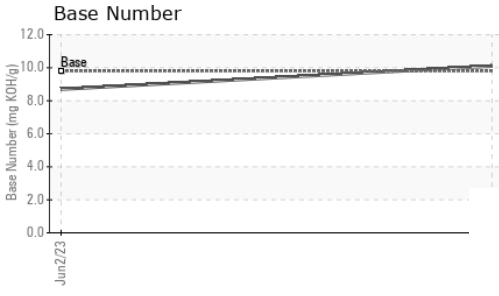
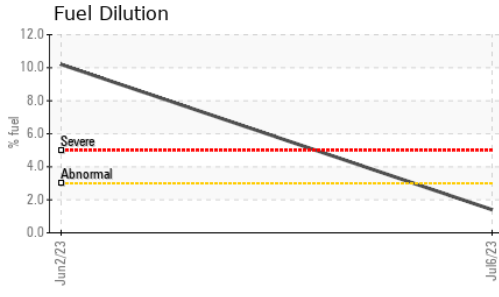
INFRA-RED

	method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844 >4	0.3	1.1	---
Nitration	Abs/cm	*ASTM D7624 >20	5.0	8.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	18.5	19.7	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414 >25	13.6	15.3	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	10.1	8.7	---

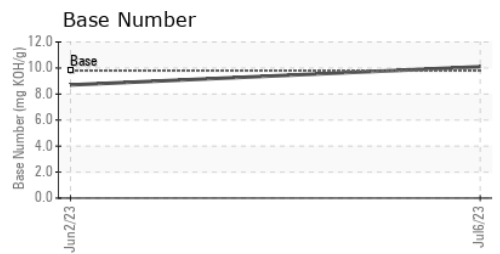
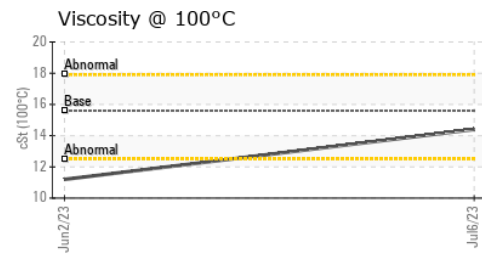
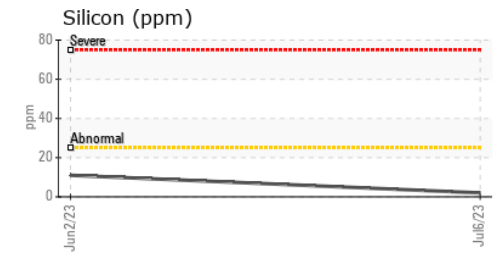
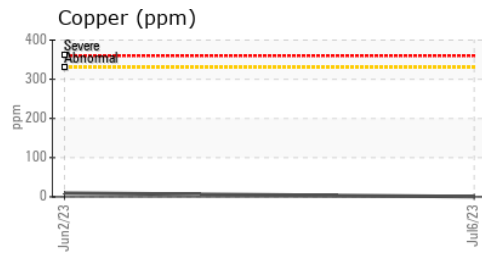
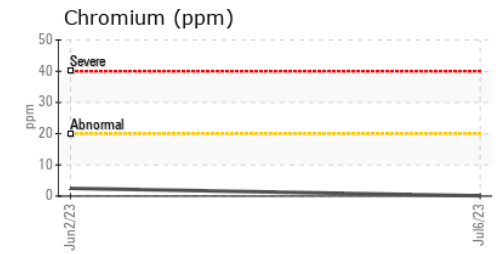
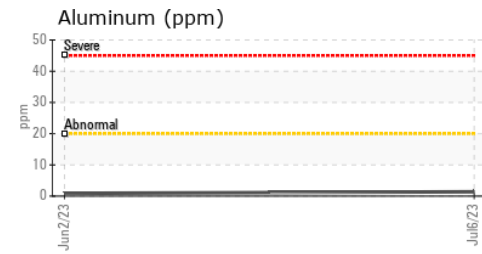
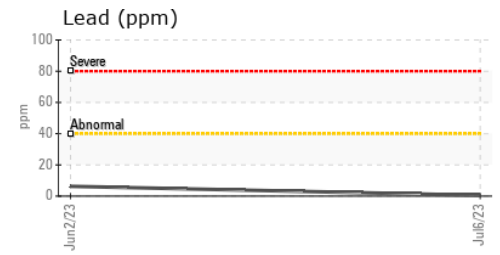
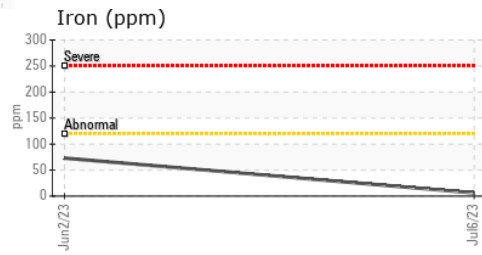
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.6	14.4	▲ 11.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100309 **Received** : 11 Jul 2023
Lab Number : 05894822 **Diagnosed** : 12 Jul 2023
Unique Number : 10550632 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

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 11042 WICKER AVE
 CEDAR LAKE, IN
 US 46303
 Contact: TIM
 tim@equipmentmanagement.com
 T: (219)670-7876
 F:

Certificate L2367
 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)