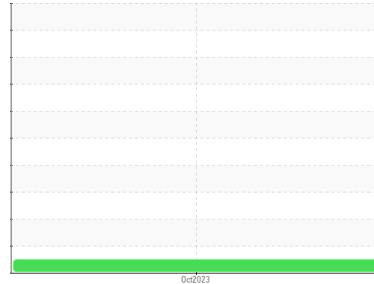


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**MACK 486**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 10W30 (32 LTR)**

## 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 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	history1	history2
Sample Number	Client Info		<b>PC0072102</b>	---	---
Sample Date	Client Info		<b>24 Oct 2023</b>	---	---
Machine Age	hrs	Client Info	<b>1870</b>	---	---
Oil Age	hrs	Client Info	<b>172</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	<b>9</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Nickel	ppm	ASTM D5185(m)	>5	<b>1</b>	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	---
Copper	ppm	ASTM D5185(m)	>330	<b>17</b>	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>4</b>	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)		<b>59</b>	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---
Magnesium	ppm	ASTM D5185(m)		<b>924</b>	---
Calcium	ppm	ASTM D5185(m)		<b>1044</b>	---
Phosphorus	ppm	ASTM D5185(m)		<b>921</b>	---
Zinc	ppm	ASTM D5185(m)		<b>1129</b>	---
Sulfur	ppm	ASTM D5185(m)		<b>2440</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

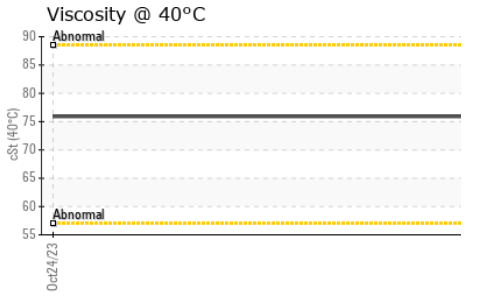
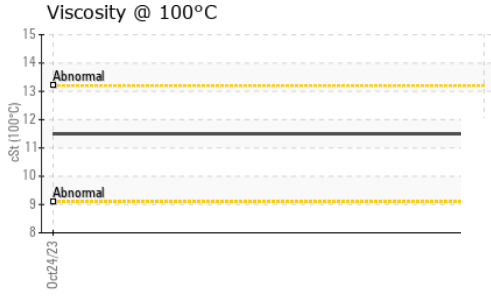
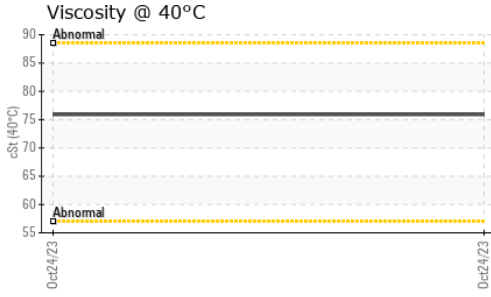
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	<b>0.1</b>	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.1</b>	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>18.6</b>	---

# OIL ANALYSIS REPORT

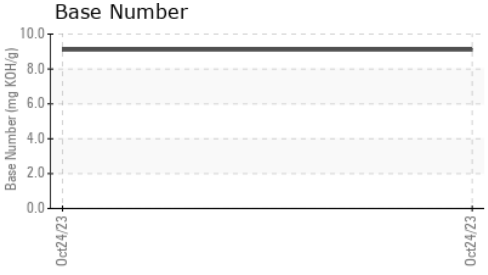
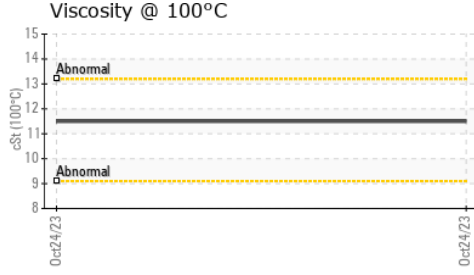
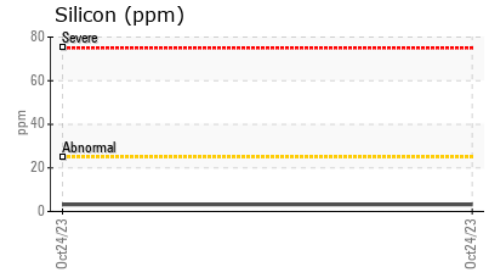
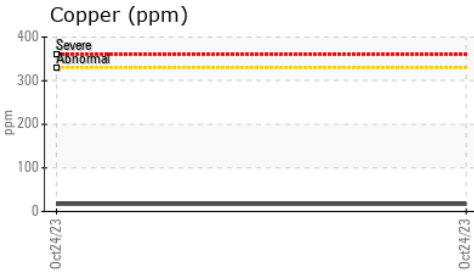
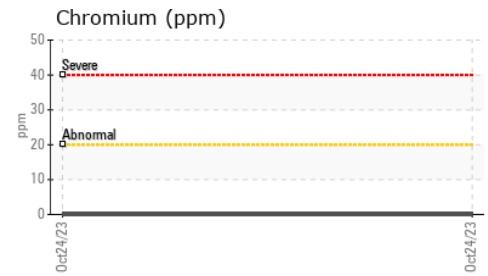
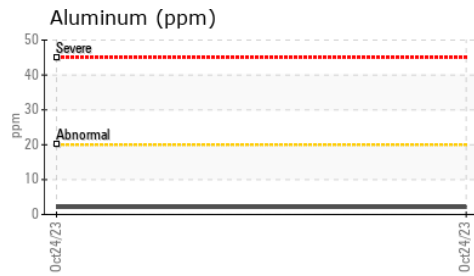
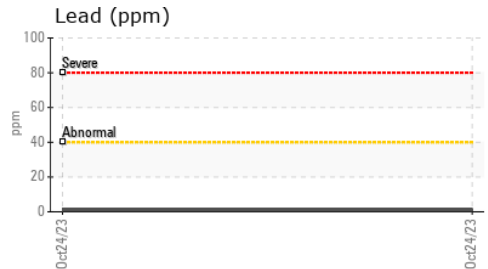
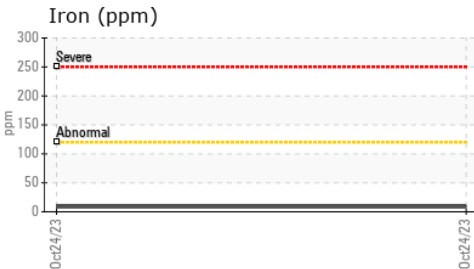


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.6</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>9.10</b>	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		<b>75.9</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>11.5</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		<b>144</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PROGRESSIVE WASTE - 612H : ON - MAIDSTONE  
**Sample No.** : PC0072102 **Received** : 27 Oct 2023 5000 8TH CONCESSION  
**Lab Number** : **02592345** **Diagnosed** : 30 Oct 2023 MAIDSTONE, ON  
**Unique Number** : 5669424 **Diagnostician** : Wes Davis CA NOR 1K0  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI ) Contact: STEVE KINCH

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