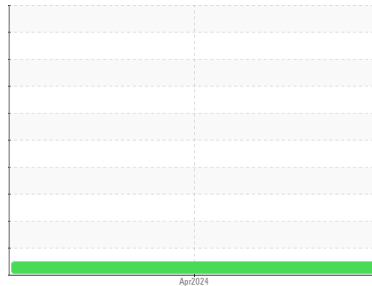




# OIL ANALYSIS REPORT

Machine Id  
**MACK 10075**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA (--- 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 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>SBP0007390</b>	---	---
Sample Date	Client Info		<b>18 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>7706</b>	---	---
Oil Age	hrs	Client Info	<b>506</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>12</b>	---
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>6</b>	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	---
Copper	ppm	ASTM D5185m	>150	<b>1</b>	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>6</b>	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185m		<b>53</b>	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m		<b>538</b>	---
Calcium	ppm	ASTM D5185m		<b>1680</b>	---
Phosphorus	ppm	ASTM D5185m		<b>725</b>	---
Zinc	ppm	ASTM D5185m		<b>1018</b>	---
Sulfur	ppm	ASTM D5185m		<b>2684</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	---
Sodium	ppm	ASTM D5185m		<b>4</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	---

## INFRA-RED

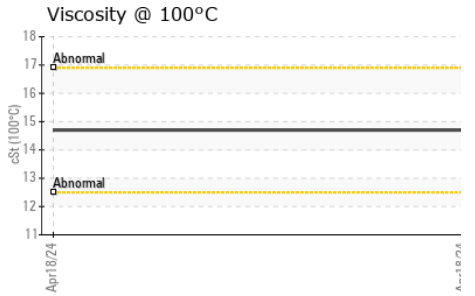
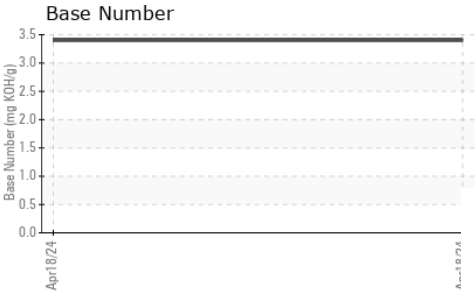
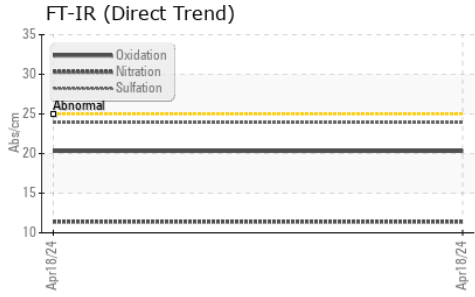
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.4</b>	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.9</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.3</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.4</b>	---



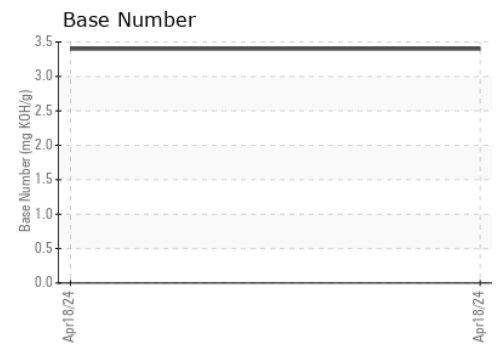
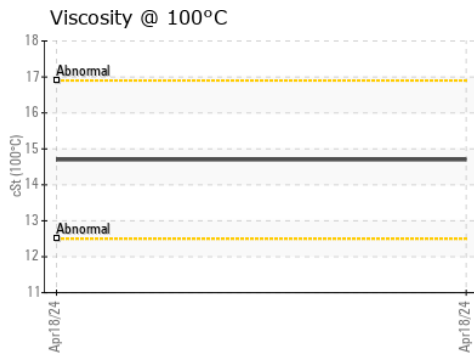
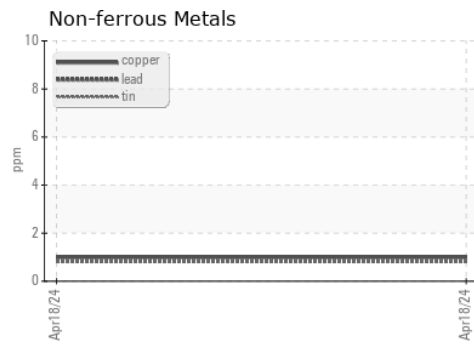
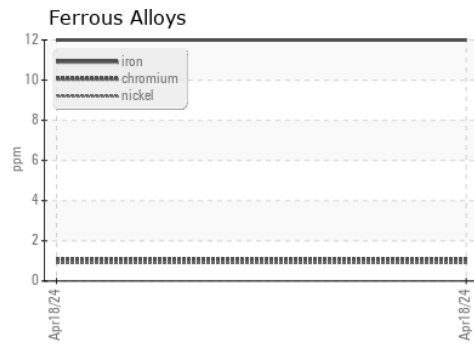
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	<b>14.7</b>	---	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007390      **Received** : 22 Apr 2024  
**Lab Number** : **06156653**      **Tested** : 23 Apr 2024  
**Unique Number** : 10992076      **Diagnosed** : 23 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**FCC ENVIRONMENTAL SERVICES NEBRASKA LLC**  
 59902 N 16TH ST  
 OMAHA, NE  
 US 68110  
 Contact: TROY BEAN  
 troy.bean@fccenvironmental.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)