

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
[450307746]  
Machine Id  
**FIRE PUMP A**  
Component  
**Diesel Engine**  
Fluid  
{not provided} (--- GAL)

## DIAGNOSIS

**Recommendation**  
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**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>PC</b>	---	---
Sample Date	Client Info	<b>23 Jun 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	---	---
Water	WC Method >0.2	<b>NEG</b>	---	---
Glycol	WC Method	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	<b>4</b>	---	---
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	---	---
Nickel	ppm ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm ASTM D5185(m) >3	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m) >20	<b>1</b>	---	---
Lead	ppm ASTM D5185(m) >40	<b>2</b>	---	---
Copper	ppm ASTM D5185(m) >330	<b>11</b>	---	---
Tin	ppm ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Antimony	ppm ASTM D5185(m)	<b>&lt;1</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>&lt;1</b>	---	---
Barium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Molybdenum	ppm ASTM D5185(m)	<b>54</b>	---	---
Manganese	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185(m)	<b>866</b>	---	---
Calcium	ppm ASTM D5185(m)	<b>963</b>	---	---
Phosphorus	ppm ASTM D5185(m)	<b>902</b>	---	---
Zinc	ppm ASTM D5185(m)	<b>1095</b>	---	---
Sulfur	ppm ASTM D5185(m)	<b>2335</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

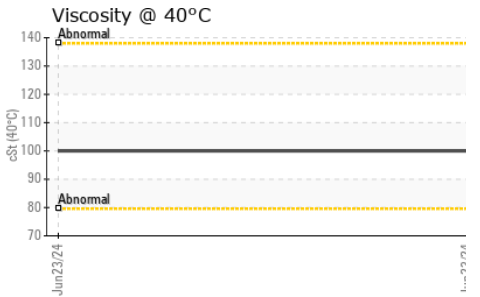
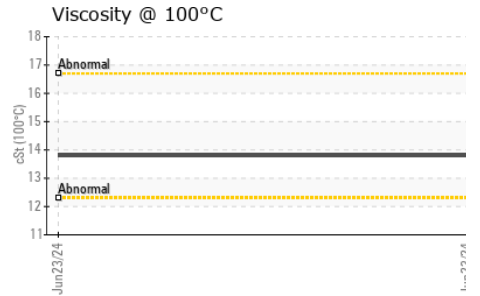
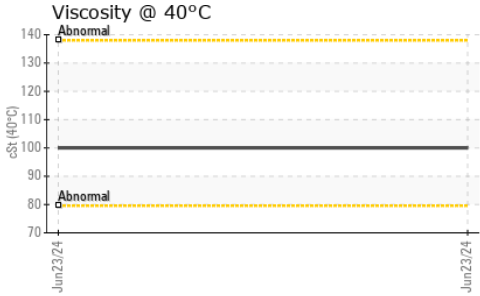
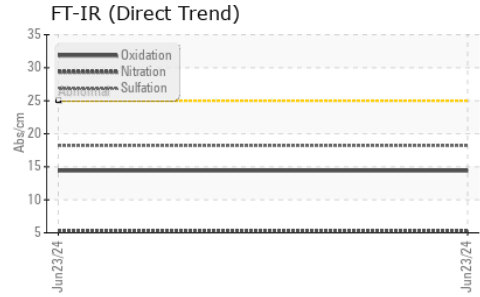
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>2</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>1</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0</b>	---	---
Nitration	Abs/cm ASTM D7624* >20	<b>5.3</b>	---	---
Sulfation	Abs./1mm ASTM D7415* >30	<b>18.2</b>	---	---

# OIL ANALYSIS REPORT

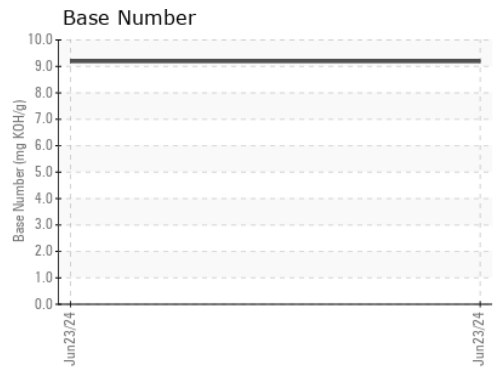
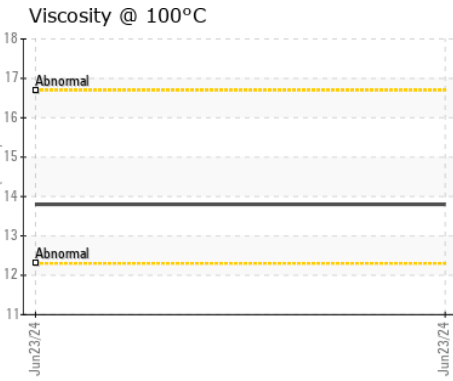
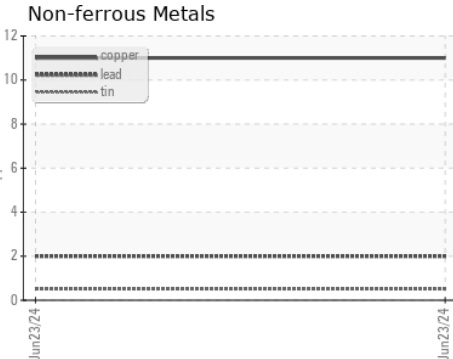
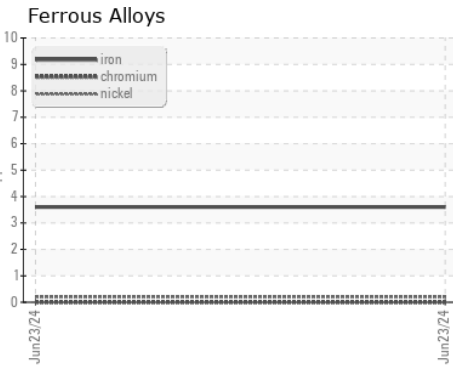


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>9.19</b>	---	---

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>100</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>13.8</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		<b>139</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC **Received** : 24 Jun 2024  
**Lab Number** : **02643687** **Tested** : 26 Jun 2024  
**Unique Number** : 5801226 **Diagnosed** : 26 Jun 2024 - Kevin Marson  
**Test Package** : MAR 2 ( Additional Tests: KV40, VI )

**Suncor - Terra Nova Projects**  
 Scotia Centre, 235 Water Street  
 St. John's, NL  
 CA A1C 1B6  
 Contact: Josh Hynes  
 joshynes@suncor.com  
 T: (709)778-3575  
 F: (709)724-2835

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.