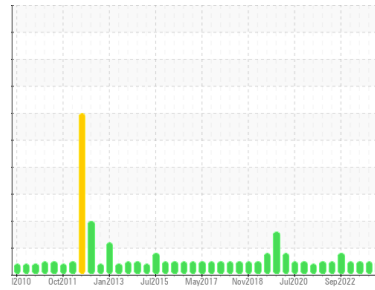




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**5 Utilities/031 Water Pumping/P Pump/758 Plant Water#8**  
 Machine Id  
**N/A 31GP758**

Component  
**Gearbox**  
 Fluid  
**PETRO CANADA ENDURATEX EP 150 (60 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0925281</b>	WC0894092	WC0831873
Sample Date	Client Info		<b>01 Apr 2024</b>	05 Jan 2024	02 Nov 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >15	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>0</b>	<1	0
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 55	<b>51</b>	53	59
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 2	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185(m) 6	<b>&lt;1</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m) 250	<b>241</b>	246	263
Zinc	ppm	ASTM D5185(m) 3	<b>2</b>	2	2
Sulfur	ppm	ASTM D5185(m) 7500	<b>7005</b>	7605	8973
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

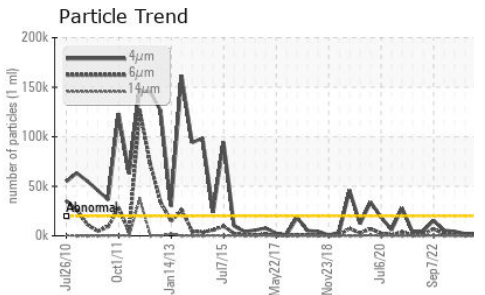
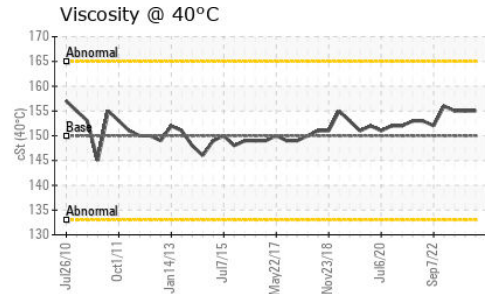
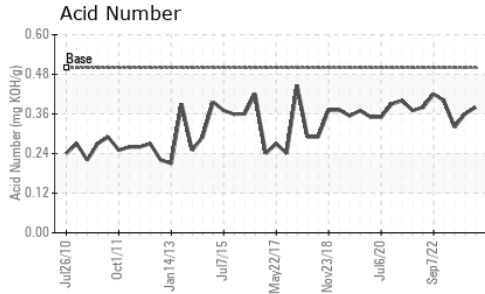
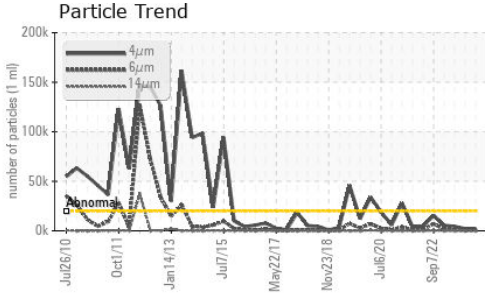
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>0</b>	<1	8
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>2158</b>	2179	4391
Particles >6µm	ASTM D7647	>5000	<b>397</b>	421	1168
Particles >14µm	ASTM D7647	>640	<b>15</b>	16	61
Particles >21µm	ASTM D7647	>160	<b>4</b>	5	17
Particles >38µm	ASTM D7647	>40	<b>1</b>	2	2
Particles >71µm	ASTM D7647	>10	<b>0</b>	2	1
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>18/16/11</b>	18/16/11	19/17/13



# OIL ANALYSIS REPORT

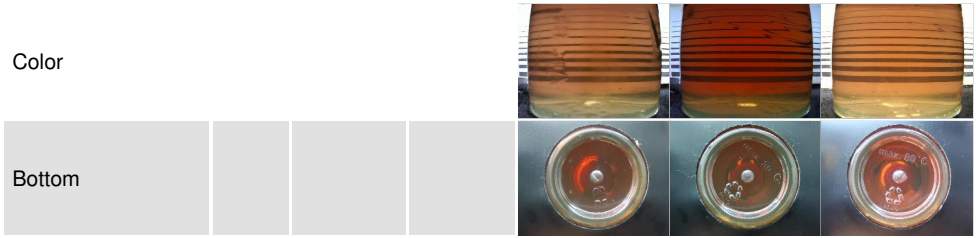


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.5	<b>0.38</b>	0.36	0.32

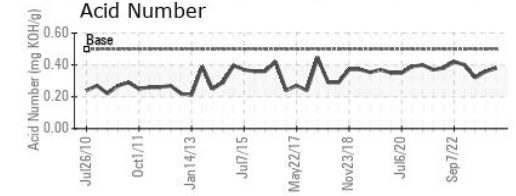
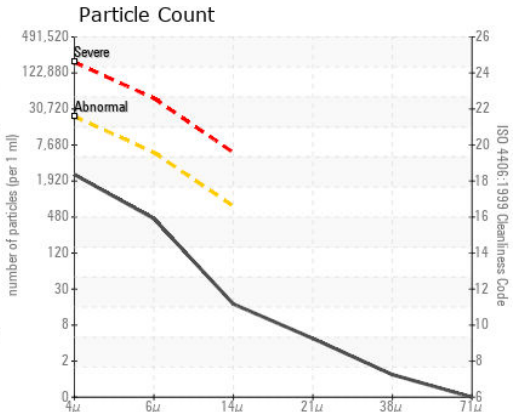
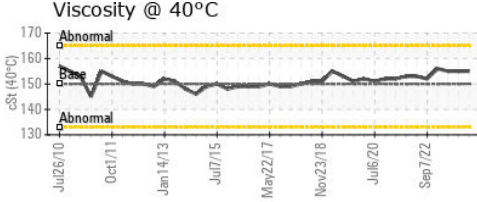
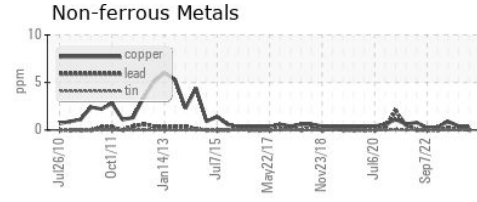
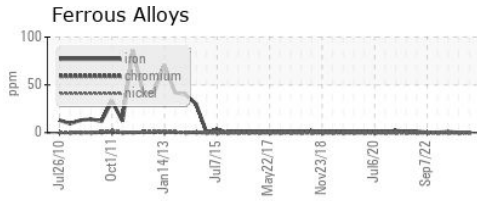
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	150.0	<b>155</b>	155	155

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0925281 **Received** : 02 Apr 2024  
**Lab Number** : **02626228** **Tested** : 03 Apr 2024  
**Unique Number** : 5759360 **Diagnosed** : 03 Apr 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Petro Canada Lubricants Inc.**  
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 Mississauga, ON  
 CA L5J 2Y3  
 Contact: Kyle Blezard  
 kyle.blezard@HFSinclair.com  
 T: (905)403-6768  
 F: (905)822-6025

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.