

# **PROBLEM SUMMARY**

Sample Rating Trend

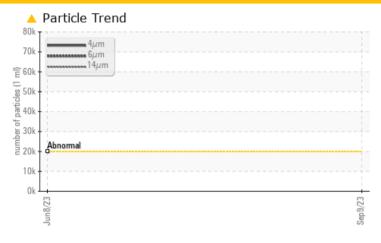
ISO

Machine Id 158 Component

**Diesel Engine** 

PETRO CANADA 15W40 (--- GAL)

### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	NORMAL					
Particles >4µm	ASTM D7647	>20000	<b>79150</b>						
Particles >6µm	ASTM D7647	>5000	<b>43117</b>						
Particles >14μm	ASTM D7647	>640	<b>7338</b>						
Particles >21μm	ASTM D7647	>160	<b>4</b> 2472						
Particles >38μm	ASTM D7647	>40	<b>△</b> 382						
Particles >71μm	ASTM D7647	>10	<b>4</b> 39						
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>23/23/20</b>						

Customer Id: CLBMYR Sample No.: WC0517480 Lab Number: 05961838 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

## HISTORICAL DIAGNOSIS

08 Jun 2023 Diag: Wes Davis

NORMAL



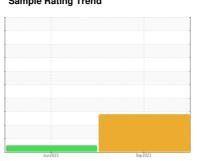
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 158 Component

**Diesel Engine** 

PETRO CANADA 15W40 (--- GAL)

## **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

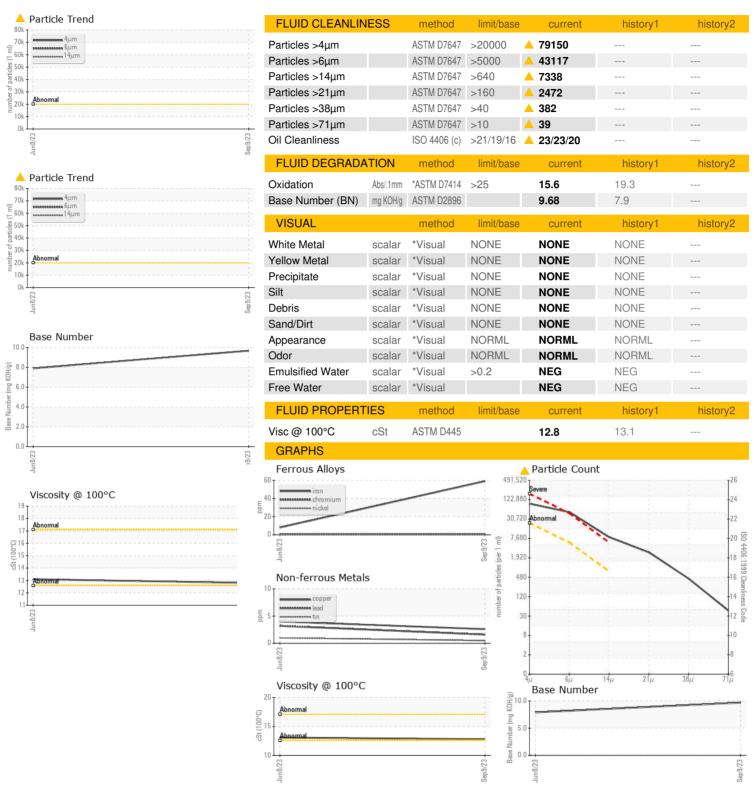
#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			Jun 2023	Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0517480	WC0822429	
Sample Date		Client Info		09 Sep 2023	08 Jun 2023	
Machine Age	hrs	Client Info		12342	12032	
Oil Age	hrs	Client Info		310	250	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	59	8	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	7	2	
Lead	ppm	ASTM D5185m	>40	2	3	
Copper	ppm	ASTM D5185m	>330	3	4	
Tin	ppm	ASTM D5185m	>15	<1	1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	10	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		59	58	
Manganese	ppm	ASTM D5185m		<1	1	
Magnesium	ppm	ASTM D5185m		949	968	
Calcium	ppm	ASTM D5185m		1062	1094	
Phosphorus	ppm	ASTM D5185m		987	1060	
Zinc	ppm	ASTM D5185m		1226	1344	
Sulfur	ppm	ASTM D5185m		3170	3857	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	22	4	
Sodium	ppm	ASTM D5185m		2	<1	
Potassium	ppm	ASTM D5185m	>20	3	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	21.3	



# OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0517480

: 10668389 Test Package : IND 2 ( Additional Tests: PrtCount )

: 05961838

Received : 26 Sep 2023 Diagnosed : 28 Sep 2023 : Jonathan Hester Diagnostician

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.

**C.L. BENTON & SONS INC** 

Contact/Location: NEIL ? - CLBMYR

706 38TH AVE N MYRTLE BEACH, SC US 29577

Contact: NEIL neil@clbenton.com

T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: