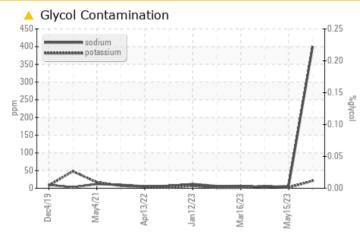
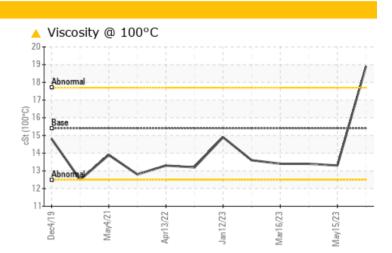




#### Machine Id **12035** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (11 GAL)**

## COMPONENT CONDITION SUMMARY





#### RECOMMENDATION

We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	NORMAL	NORMAL		
Sodium	ppm	ASTM D5185m		<u> </u>	6	3		
Potassium	ppm	ASTM D5185m	>20	<mark>  2</mark> 1	2	6		
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	13.3	13.4		

Customer Id: GFL732 Sample No.: GFL0046609 Lab Number: 05898355 Test Package: FLEET



To manage this report scan the QR code

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

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

#### HISTORICAL DIAGNOSIS



### 15 May 2023 Diag: Wes Davis

Resample at the next service interval to monitor.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.



view report

#### 05 May 2023 Diag: Wes Davis



Resample at the next service interval to monitor.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.

#### 16 Mar 2023 Diag: Wes Davis





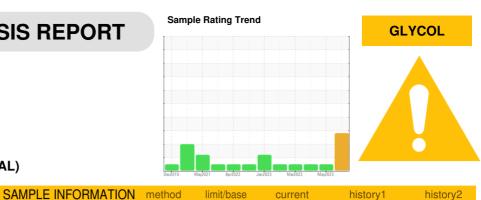
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







# **OIL ANALYSIS REPORT**



#### Machine Id 12035

Component

**Diesel Engine** Fluid

# PETRO CANADA DURON SHP 15W40 (11 GAL)

# DIAGNOSIS

### Recommendation

We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Sodium and/or potassium levels are high.

#### Fluid Condition

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

		methou	IIIIII/Dase	Current	TISTOLAL	TIStoryz
Sample Number		Client Info		GFL0046609	GFL0077901	GFL0077903
Sample Date		Client Info		12 Jul 2023	15 May 2023	05 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
					-	-
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	20	18	9
Chromium	ppm	ASTM D5185m	>4	1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	5
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>85	6	<1	0
Tin	ppm	ASTM D5185m	>4	3	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	80	2	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	60	56
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	645	890	899
Calcium	ppm	ASTM D5185m	1070	793	1044	1002
Phosphorus	ppm	ASTM D5185m	1150	771	979	954
Zinc	ppm	ASTM D5185m	1270	1038	1171	1170
Sulfur	ppm	ASTM D5185m	2060	2987	2855	3209
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	16	6	3
Sodium		ASTM D5185m				0
	ppm	ASTIVI DOTODITI		<u> </u>	6	3
Potassium	ppm ppm	ASTM D5185m	>20	▲ 401 ▲ 21	6 2	6
Potassium Glycol			>20	-		
	ppm	ASTM D5185m	>20 limit/base	<b>1</b> 21	2	6
Glycol	ppm	ASTM D5185m *ASTM D2982		A 21 NEG	2 NEG	6 NEG
Glycol	ppm %	ASTM D5185m *ASTM D2982 method	limit/base	21 NEG current	2 NEG history1	6 NEG history2
Glycol INFRA-RED Soot %	ppm %	ASTM D5185m *ASTM D2982 method *ASTM D7844	limit/base	21 NEG current 0.7	2 NEG history1 0.6	6 NEG history2 0.4
Glycol INFRA-RED Soot % Nitration	ppm % % Abs/cm Abs/.1mm	ASTM D5185m *ASTM D2982 *ASTM D7844 *ASTM D7844 *ASTM D7624	limit/base >3 >20	<ul> <li>21</li> <li>NEG</li> <li>current</li> <li>0.7</li> <li>30.8</li> </ul>	2 NEG history1 0.6 9.5	6 NEG history2 0.4 8.0
Glycol INFRA-RED Soot % Nitration Sulfation	ppm % % Abs/cm Abs/.1mm	ASTM D5185m *ASTM D2982 *ASTM D7844 *ASTM D7844 *ASTM D7624	limit/base >3 >20 >30	<ul> <li>21</li> <li>NEG</li> <li>current</li> <li>0.7</li> <li>30.8</li> <li>0.0</li> </ul>	2 NEG history1 0.6 9.5 21.0	6 NEG history2 0.4 8.0 18.8



# **OIL ANALYSIS REPORT**

