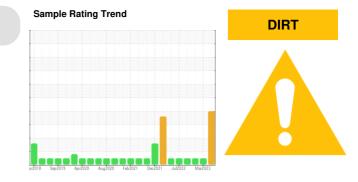


Machine Id 3792 Component Diesel Engine

Fluic

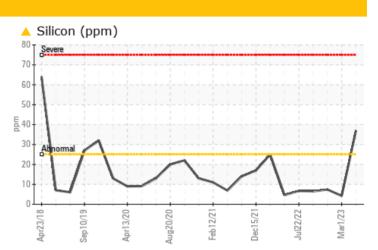
# **PROBLEM SUMMARY**



### Glycol Contamination 400 0.25 sodium 350 potassium 0.20 300 250 0.15 ۾ 200 0.10 150 100 0.05 50 0 0.00 Jul22/22 Sep 10/19 Apr13/20 Feb12/21 Mar1/23 Aua20/20 Dec15/2 Apr23/1

PETRO CANADA DURON SHP 15W40 (38 QTS)

COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We advise that you check for the source of the coolant leak. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	NORMAL	NORMAL		
Silicon	ppm	ASTM D5185m	>25	<u> </u>	4	7		
Sodium	ppm	ASTM D5185m		<b>4</b> 8	2	2		
Potassium	ppm	ASTM D5185m	>20	<u> </u>	0	0		

Customer Id: GFL035 Sample No.: GFL0071556 Lab Number: 05888772 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

*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			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

### **HISTORICAL DIAGNOSIS**



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

### 06 Jan 2023 Diag: Wes Davis

01 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.

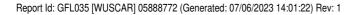


### 01 Aug 2022 Diag: Wes Davis

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.

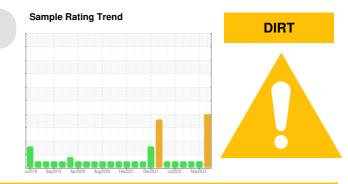








## **OIL ANALYSIS REPORT**



# Machine Id 3792

Component

Diesel Engine

## PETRO CANADA DURON SHP 15W40 (38 QTS)

### DIAGNOSIS

### Recommendation

We advise that you check for the source of the coolant leak. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Sodium and/or potassium levels are high. Elemental level of silicon (Si) above normal indicating ingress of seal material.

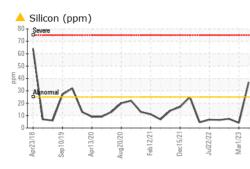
### Fluid Condition

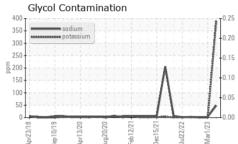
The BN result indicates that there is suitable alkalinity remaining in the oil.

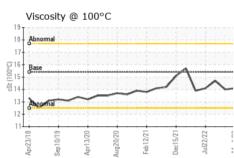
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0071556	GFL0053172	GFL0061707
Sample Date		Client Info		29 Jun 2023	01 Mar 2023	06 Jan 2023
Machine Age	hrs	Client Info		7176	7176	7176
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	18	9	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	5	0	4
Copper	ppm	ASTM D5185m	>330	1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	3	7	17
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	74	64	69
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	952	972	946
Calcium	ppm	ASTM D5185m	1070	1208	1169	1238
Phosphorus	ppm	ASTM D5185m	1150	1119	1061	1087
Zinc	ppm	ASTM D5185m	1270	1287	1302	1319
Sulfur	ppm	ASTM D5185m	2060	3456	3815	3791
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<b>A</b> 37	4	7
Sodium	ppm	ASTM D5185m		<u> </u>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>A</b> 390	0	0
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.9	0.4	0.6
5001 /8					7.0	0.0
	Abs/cm	*ASTM D7624	>20	11.5	7.6	9.3
Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	11.5 25.8	7.6 20.3	9.3 22.2
Nitration	Abs/.1mm	*ASTM D7415				
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	20.3	22.2

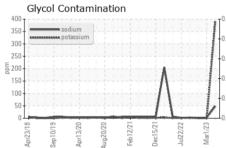


# **OIL ANALYSIS REPORT**

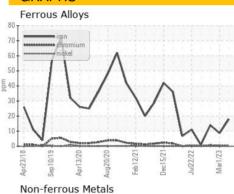




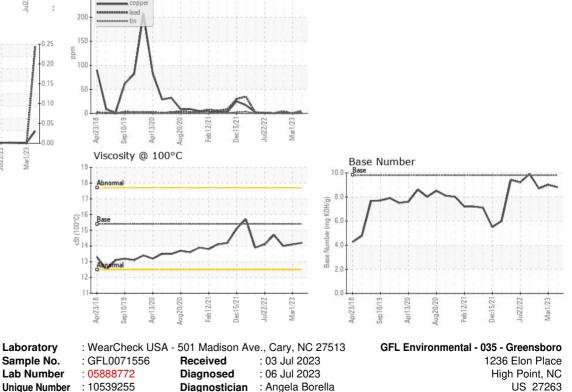


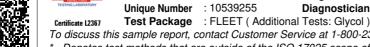


VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.1	14.0
GRAPHS						



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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)