

728047-361698

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

# COMPONENT CONDITION SUMMARY



### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	NORMAL	ATTENTION		
Sodium	ppm	ASTM D5185m		🔺 269	18	<u> </u>		

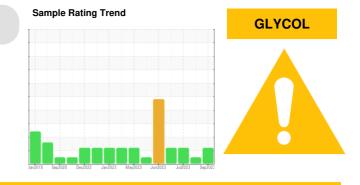
Customer Id: GFL821 Sample No.: GFL0090216 Lab Number: 05970093 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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



### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 10 Aug 2023 Diag: Wes Davis



 $\checkmark$ 

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.

#### 21 Jul 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

04 Jul 2023 Diag: Don Baldridge

### GLYCOL



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. 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



# **OIL ANALYSIS REPORT**

# Sample Rating Trend **GLYCOL**

### Machine Id 728047-361698

Component

**Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

## DIAGNOSIS

### Recommendation

The oil 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

Sodium and/or potassium levels are high. Test for glycol is negative.

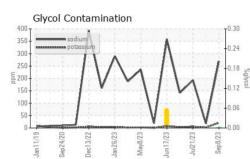
### Fluid Condition

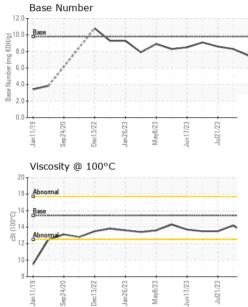
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090216	GFL0090241	GFL0076812
Sample Date		Client Info		08 Sep 2023	10 Aug 2023	21 Jul 2023
Machine Age	hrs	Client Info		13608	13387	13241
Oil Age	hrs	Client Info		600	0	150
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ATTENTION	NORMAL	ATTENTION
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	>100	18	5	8
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	0	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	3	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	78	62	73
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	918	934	975
Calcium	ppm	ASTM D5185m	1070	998	1124	1072
Phosphorus	ppm	ASTM D5185m	1150	990	1068	1035
Zinc	ppm	ASTM D5185m	1270	1234	1275	1241
Sulfur	ppm	ASTM D5185m	2060	2805	3205	3513
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	3
Sodium	ppm	ASTM D5185m		<u> </u>	18	<b>1</b> 93
Potassium	ppm	ASTM D5185m	>20	21	2	5
Glycol	%	*ASTM D2982		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.6	5.8	8.0
Sulfation	Abs/.1mm	*ASTM D7415		21.1	17.9	19.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Ovidation	Abs/.1mm	*ASTM D7414	>25	17.0	10.7	14.0
Oxidation	ADS/.IIIIIII	ASTIVI D7414	>20	17.2	13.7	14.8

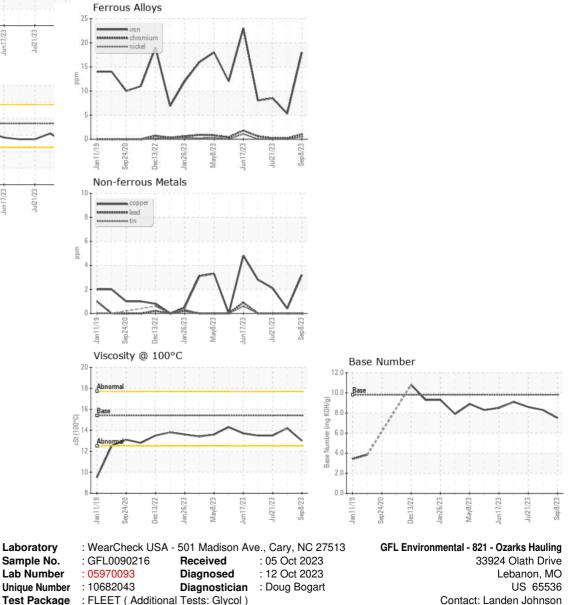


# **OIL ANALYSIS REPORT**





VISUAL		method	limit/base	current	history1	history2
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	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	14.2	13.5
GRAPHS						



 Certificate L2367
 Test Package
 : FLEET (Additional Tests: Glycol)

 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)

Submitted By: GFL821, GFL824 and GFL829 - Landen Johnson

F:

T: (417)664-0010

landen.johnson@gflenv.com