

● Glycol Contamination







RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check for the source of the coolant leak. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	NORMAL		
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	8	4		
Silicon	ppm	ASTM D5185m	>25	A 31	8	5		
Sodium	ppm	ASTM D5185m		A 356	5	1		
Potassium	ppm	ASTM D5185m	>20	<u> </u>	4	2		
Glycol	%	*ASTM D2982		0.10	NEG	NEG		

Customer Id: GFL172 Sample No.: GFL0079704 Lab Number: 05998360 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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			
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS



03 Jul 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

11 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.

24 Apr 2023 Diag: Wes Davis

NORMAL



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.





XO

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

X

Component

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0079704	GFL0078405	GFL0072677
We advise that you check the air filter, air induction	Sample Date		Client Info		30 Oct 2023	03 Jul 2023	11 May 2023
system, and any areas where dirt may enter the	Machine Age	mls	Client Info		461538	18160	17852
component. We advise that you check for the	Oil Age	mls	Client Info		0	18160	17852
drain the oil and perform a filter service on this	Oil Changed		Client Info		N/A	Not Changd	Not Changd
component if not already done. We recommend an	Sample Status				SEVERE	NORMAL	NORMAL
early resample to monitor this condition.	CONTAMINAT		method	limit/base	ourrent	history1	history?
A Wear	CONTAIMINAT		methou	IIIIII/Dase	Current	history	TIIStOLYZ
All component wear rates are normal.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Contamination	WEAR METAL	.S	method	limit/base	current	history1	history2
Sodium and/or potassium levels are high. Test for	Iron	ppm	ASTM D5185m	>120	72	17	7
glycol is positive. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina silicate (coarse dirt)	Chromium	ppm	ASTM D5185m	>20	2	<1	<1
ingress.	Nickel	ppm	ASTM D5185m	>5	2	<1	<1
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
Fluid Condition The BN result indicates that there is suitable	Silver	ppm	ASTM D5185m	>2	0	0	0
alkalinity remaining in the oil. The oil is no longer	Aluminum	ppm	ASTM D5185m	>20	A 32	8	4
serviceable due to the presence of contaminants.	Lead	ppm	ASTM D5185m	>40	5	<1	<1
·	Copper	ppm	ASTM D5185m	>330	3	3	0
	Tin	ppm	ASTM D5185m	>15	2	1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	maa	ASTM D5185m	0	12	14	35
	Barium	mag	ASTM D5185m	0	0	0	0
	Molvbdenum	ppm	ASTM D5185m	60	64	64	62
	Manganese	ppm	ASTM D5185m	0	1	1	<1
	Magnesium	ppm	ASTM D5185m	1010	878	936	918
	Calcium	ppm	ASTM D5185m	1070	1083	1174	1169
	Phosphorus	ppm	ASTM D5185m	1150	924	993	1020
	Zinc	ppm	ASTM D5185m	1270	1218	1227	1270
	Sulfur	ppm	ASTM D5185m	2060	2764	3511	3865
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	3 1	8	5
	Sodium	ppm	ASTM D5185m	- 10	▲ 356	5	1
	Potassium	ppm	ASTM D5185m	>20	▲ 50	4	2
	Glycol	%	*ASTM D2982	- 20	• 0.10	NEG	NEG
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	<u>\</u> 4	14	0.5	0.2
	Nitration	Abe/cm	*ASTM D7624	>20	12.8	9.1	6.4
	Sulfation	Abs/.1mm	*ASTM D7024	>30	26.7	21.2	19.2
	FLUID DEGRA		method	limit/base	current	history1	history2
						- mistory i	HISTOLYZ
	Oxidation	Abs/.1mm	^ASTM D7414	>25	21.2	16.8	14.5
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8	7.4	8.7

TALLASSEE 925026-152580

Diesel Engine Fluid



OIL ANALYSIS REPORT

