



## RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	NORMAL		
Soot %	%	*ASTM D7844	>4	6.8	2.3	2.1		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>0.0</b>	7.8	8.7		

Customer Id: GFL005 Sample No.: GFL0092726 Lab Number: 05998809 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

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 Filter			?	We recommend you service the filters on this component.				
Resample			?	We recommend an early resample to monitor this condition.				
Alert			?	NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.				
Check Combustion			?	We advise that you check for faulty combustion, plugged air filters, or aftercoolers.				

## HISTORICAL DIAGNOSIS



04 Jan 2023 Diag: Don Baldridge

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



30 Nov 2022 Diag: Don Baldridge

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.



#### 03 Aug 2022 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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.



NORMAL







## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

426099-45 Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (60 GAL)

DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0092726	GFL0070560	GFL0065285
We advise that you check for faulty combustion,	Sample Date		Client Info		02 Nov 2023	04 Jan 2023	30 Nov 2022
plugged air filters, or aftercoolers. We recommend	Machine Age	hrs	Client Info		38762	37446	595287
you service the filters on this component. We	Oil Age	hrs	Client Info		0	200	0
condition NOTE: High solids (carbon/soot) in the	Oil Changed		Client Info		N/A	Not Changd	Not Changd
sample have limited the accuracy of Infra-Red data	Sample Status				SEVERE	NORMAL	NORMAL
including Total Base Number (TBN) value.	CONTAMINAT		mothod	limit/baco	ourropt	history1	history?
Wear	CONTAMINAT		method	iiiiii/base	current	History	Thistory2
All component wear rates are normal.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Contamination	Glycol		WC Method		NEG	NEG	NEG
There is an abnormal amount of solids and carbon present in the oil.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	59	21	18
The BN level is low	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	2	3
	Lead	ppm	ASTM D5185m	>40	15	<1	2
	Copper	ppm	ASTM D5185m	>330	55	3	3
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	10	304	354
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	59	79	81
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	918	391	389
	Calcium	ppm	ASTM D5185m	1070	1024	1249	1313
	Phosphorus	ppm	ASTM D5185m	1150	956	921	890
	Zinc	ppm	ASTM D5185m	1270	1265	1113	1122
	Sulfur	ppm	ASTM D5185m	2060	2727	3004	3248
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	7	7
	Sodium	ppm	ASTM D5185m		1	0	<1
	Potassium	ppm	ASTM D5185m	>20	3	1	0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	6.8	2.3	2.1
	Nitration	Abs/cm	*ASTM D7624	>20	16.1	7.7	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	34.6	23.6	24.8
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	25.0	14.1	15.0
	Base Number (BN)	ma KOH/a	ASTM D2896	9.8	<b>0.0</b>	7.8	8.7



# **OIL ANALYSIS REPORT**



Submitted By: CHRISTOPHER PADGETT