

PROBLEM SUMMARY

Sample Rating Trend



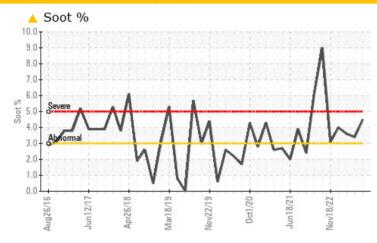
Machine Id **2449**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor. 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				ABNORMAL	ABNORMAL	ABNORMAL		
Soot %	%	*ASTM D7844	>3	4.5	△ 3.4	△ 3.6		
Base Number (BN	mg KOH/g	ASTM D2896	9.8	△ 0.0	7.7	△ 0.0		

Customer Id: GFL001 Sample No.: GFL0103265 Lab Number: 06030203 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 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
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

17 Nov 2023 Diag: Sean Felton

SOOT



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is an abnormal amount of solids and carbon present 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.



20 Sep 2023 Diag: Don Baldridge

DEGRADATION



The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value. All component wear rates are normal. There is an abnormal amount of solids and carbon present in the oil. The BN level is low.



26 Apr 2023 Diag: Wes Davis

SOOT



The oil change at the time of sampling has been noted. All component wear rates are normal. Light concentration of carbon/soot present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2449 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

Wear

All component wear rates are normal.

Contamination

There is an abnormal amount of solids and carbon present in the oil.

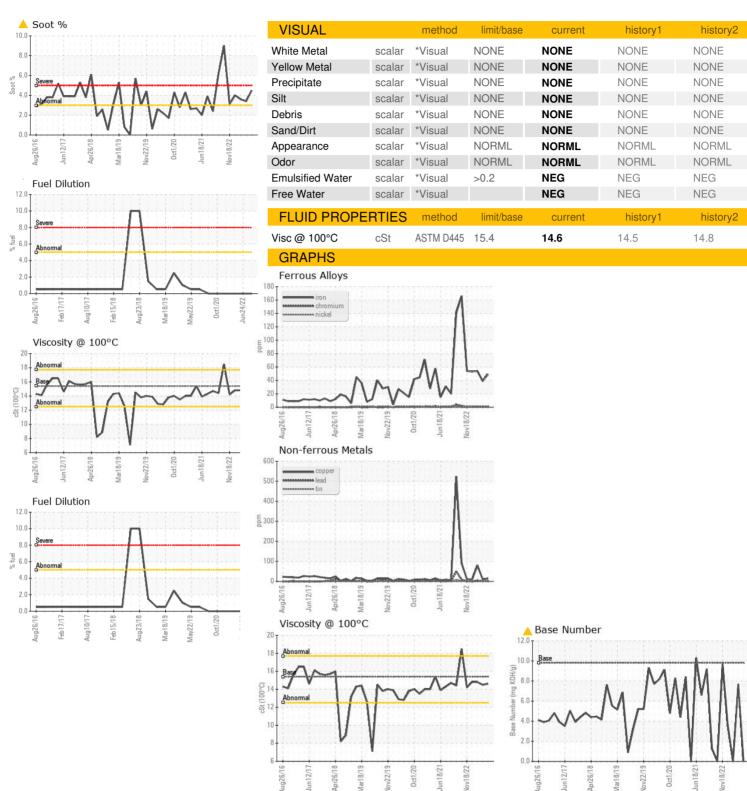
Fluid Condition

The BN level is low.

SAMPLE INFORMATION method limit/base current history1 history2	g215 Jun2017 Apr2018 Mar2019 Nov2019 Ocz020 Jun2021 Nov2022							
Sample Date Client Info 42863 42677 42280 Machine Age hrs Client Info 0	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Machine Age hrs Client Info 42863 42677 42260 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info Changed Not Changed Changed Sample Status BABNORMAL ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Iron ppm ASTM D5185m >10.0 49 39 54 Chromium ppm ASTM D5185m >20 <1	Sample Number		Client Info		GFL0103265	GFL0094725	GFL0056740	
Oil Age hrs Client Info Changed Changed ABNORMAL Not Changed Changed Changed ABNORMAL ABNORMAL <th< td=""><td>Sample Date</td><td></td><td>Client Info</td><td></td><td>08 Dec 2023</td><td>17 Nov 2023</td><td>20 Sep 2023</td></th<>	Sample Date		Client Info		08 Dec 2023	17 Nov 2023	20 Sep 2023	
Oil Changed Sample Status Client Info Changed ABNORMAL ABNORMA	Machine Age	hrs	Client Info		42863	42677	42260	
Sample Status Method Imitibase current history1 history2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 49 39 54 Chromium ppm ASTM D5185m >20 <1 <1 1 Nickel ppm ASTM D5185m >20 <1 <1 1 Silver ppm ASTM D5185m >30 0 0 0 Lead ppm ASTM D5185m >30 15 12 80 Tin ppm ASTM D5185m >330 15 12 80 Vanadium ppm ASTM D5185m >330 15 12 80 Tin ppm ASTM D5185m 0 1 1 2 6	Oil Age	hrs	Client Info		0	0	0	
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Iron	Glycol		WC Method		NEG	NEG	NEG	
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CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 5 4 Sodium ppm ASTM D5185m 2 2 6 Potassium ppm ASTM D5185m >20 0 1 2 Fuel % ASTM D3524 >5 <1.0	Zinc	ppm	ASTM D5185m	1270	1200	1289	1255	
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INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 ▲ 4.5 ▲ 3.4 ▲ 3.6 Nitration Abs/cm *ASTM D7624 >20 10.2 9.0 11.3 Sulfation Abs/.1mm *ASTM D7415 >30 25.8 24.2 29.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.0 14.6 17.5	Potassium	ppm	ASTM D5185m	>20	0	1	2	
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Nitration Abs/cm *ASTM D7624 >20 10.2 9.0 11.3 Sulfation Abs/.1mm *ASTM D7415 >30 25.8 24.2 29.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.0 14.6 17.5	INFRA-RED		method	limit/base	current	history1	history2	
Sulfation Abs/.1mm *ASTM D7415 >30 25.8 24.2 29.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.0 14.6 17.5	Soot %	%	*ASTM D7844	>3	4.5	▲ 3.4	△ 3.6	
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.0 14.6 17.5	Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.0	11.3	
Oxidation Abs/.1mm *ASTM D7414 >25 14.0 14.6 17.5	Sulfation	Abs/.1mm		>30		24.2	29.5	
	FLUID DEGRAI	DATION	method	limit/base	current	history1	history2	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	14.6	17.5	
		mg KOH/g						



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06030203 : 10779994

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103265 Received : 11 Dec 2023 Diagnosed

: 13 Dec 2023 Diagnostician : Don Baldridge

Test Package : FLEET (Additional Tests: FuelDilution) 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)

GFL Environmental - 001 - Raleigh(CNG)

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Contact: Craig Johnson craig.johnson@gflenv.com

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