

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. 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	NORMAL	
Soot %	%	*ASTM D7844	>4	<u> </u>	<u>▲</u> 5.2	3.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	2 .0	▲ 0.0	7.2	

Customer Id: GFL408 Sample No.: GFL0086995 Lab Number: 05892806 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 <u>customerservice@wearcheck.com</u>

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.
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



07 Jun 2023 Diag: Don Baldridge

31 Jan 2023 Diag: Wes Davis

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. 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.





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.



OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

history 2

GFL0069277

31 Jan 2023

Changed

NORMAL

<1.0

NEG

18

1

0

0

0

3

1

4

<1

0

0

history 2

history 2

3310

600



limit/base

current

history 1

GFL0083994

07 Jun 2023

Not Changd

ABNORMAL

<1.0

NEG

25

1

<1

0

0

2

9

7

<1

0

0

history 1

history 1

4069

87

Machine Id 727157 Component Diesel Engi Fluid PETRO CAN

DIAGNOSIS

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

SAMPLE INFORMATION method

GFL0086995 Sample Number **Client Info** Recommendation We advise that you check for faulty combustion, 30 Jun 2023 Sample Date Client Info plugged air filters, or aftercoolers. Oil and filter Machine Age hrs **Client Info** 4198 change at the time of sampling has been noted. Oil Age hrs **Client Info** 600 Resample at the next service interval to monitor. Oil Changed **Client Info** Changed NOTE: High solids (carbon/soot) in the sample ABNORMAL Sample Status have limited the accuracy of Infra-Red data including Total Base Number (TBN) value. CONTAMINATION method limit/base current Wear Fuel WC Method >3.0 <1.0 All component wear rates are normal. Glycol WC Method NEG Contamination There is an abnormal amount of solids and carbon WEAR METALS method limit/base current present in the oil. Iron ASTM D5185m >120 23 ppm Fluid Condition ASTM D5185m >20 2 Chromium ppm The BN level is low. Nickel ASTM D5185m >5 <1 ppm ASTM D5185m >2 0 Titanium ppm Silver ppm ASTM D5185m >2 0 Aluminum ASTM D5185m >20 2 ppm Lead ASTM D5185m >40 8 ppm 5 Copper ppm ASTM D5185m >330 Tin ppm ASTM D5185m >15 <1 Vanadium 0 ppm ASTM D5185m Cadmium ppm ASTM D5185m 0

ADDITIVES		methou	innii base	current	Thistory I	mistory 2
Boron	ppm	ASTM D5185m	0	6	4	2
Barium	ppm	ASTM D5185m	0	0	2	<1
Molybdenum	ppm	ASTM D5185m	60	60	64	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	903	875	880
Calcium	ppm	ASTM D5185m	1070	1059	1072	1058
Phosphorus	ppm	ASTM D5185m	1150	975	973	968
Zinc	ppm	ASTM D5185m	1270	1185	1191	1172
Sulfur	ppm	ASTM D5185m	2060	2891	3111	2644
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	nnm	ASTM D5185m	>25	3	3	3

		mothod	limit/booo	ourropt	biotony 1	biotom 0	
Potassium	ppm	ASTM D5185m	>20	4	5	8	
Sodium	ppm	ASTM D5185m		6	<1	<1	
Silicon	ppm	ASTM D5185m	>25	3	3	3	

		method	innit/base	current	nistory i	history 2
Soot %	%	*ASTM D7844	>4	4 .7	▲ 5.2	3.8
Nitration	Abs/cm	*ASTM D7624	>20	14.0	11.9	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.3	29.7	24.6
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	18.1	14.7
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	2.0	▲ 0.0	7.2



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: WILLIAM DEOLA

4235 M-53

US 48416

F:

history 2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

14.3