

PROBLEM SUMMARY

Sample Rating Trend

WEAR



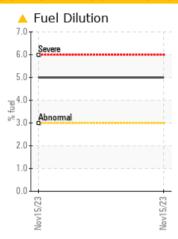


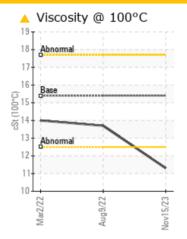
Machine Id 4639M Component

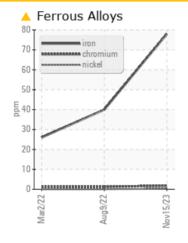
Diesel Engine

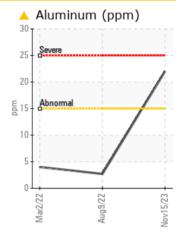
PETRO CANADA DURON SHP 15W40 (36 GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status ABNORMAL NORMAL NORMAL									
Iron	ppm	ASTM D5185m	>75	A 78	40	26			
Aluminum	ppm	ASTM D5185m	>15	22	3	4			
Fuel	%	ASTM D3524	>3.0	△ 5.0	<1.0	<1.0			
Visc @ 100°C	cSt	ASTM D445	15.4	11.3	13.7	14.0			

Customer Id: GFL410 Sample No.: GFL0084961 Lab Number: 06010559 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 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.
Check Fuel/injector System			?	We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS

09 Aug 2022 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.



02 Mar 2022 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.





OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



4639M Component **Diesel Engine**

PETRO CANADA DURON

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Piston, ring and cylinder wear is indicated.

Contamination

There is a moderate amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

ON SHP 15W40 (3	36 GAL)	Ma	2022	Aug 2022 Nev 202	123	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084961	GFL0052082	GFL0018451
Sample Date		Client Info		15 Nov 2023	09 Aug 2022	02 Mar 2022
Machine Age	hrs	Client Info		18139	15878	14263
Oil Age	hrs	Client Info		18139	15878	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	A 78	40	26
			_	_		

Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	<u>^</u> 78	40	26
Chromium	ppm	ASTM D5185m	>5	2	1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>15	<u> </u>	3	4
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>100	3	1	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Roron	nnm	ASTM D5185m	0	22	3	2

712211112						
Boron	ppm	ASTM D5185m	0	22	3	2
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	48	58	63
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	809	860	979
Calcium	ppm	ASTM D5185m	1070	928	1029	1131
Phosphorus	ppm	ASTM D5185m	1150	872	1006	1066
Zinc	ppm	ASTM D5185m	1270	1100	1211	1358
Sulfur	ppm	ASTM D5185m	2060	2643	2736	2575

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	22	8	12
Sodium	ppm	ASTM D5185m		6	5	6
Potassium	ppm	ASTM D5185m	>20	3	2	3
Fuel	%	ASTM D3524	>3.0	△ 5.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2

Nitration	Abs/cm	*ASTM D7624	>20	9.1	11.1	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	24.3	25.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

*ASTM D7844 >6

FLUID DEGRAL	AHON	method	iiiiii/base	current	HISTORY	riistoryz
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	20.7	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.7	6.8

Soot %

1.1



OIL ANALYSIS REPORT

