

PROBLEM SUMMARY

Sample Rating Trend

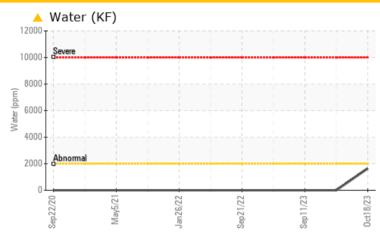
WATER

423013-408

Component Diesel Engine

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS											
Sample Status				MARGINAL	ABNORMAL	SEVERE					
Water	%	ASTM D6304	>0.2	△ 0.164							
ppm Water	ppm	ASTM D6304	>2000	1640							
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	NEG					

Customer Id: GFL654 Sample No.: GFL0091804 Lab Number: 05986037 Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

10 Oct 2023 Diag: Wes Davis

FUEL



The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel 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.



11 Sep 2023 Diag: Wes Davis

FUEL



We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



06 Jun 2023 Diag: Wes Davis

NORMAL



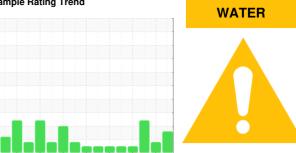
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



423013-408

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- L

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Fuel content negligible. There is a trace of moisture present in the oil. Test for glycol is negative.

Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

_TR)		Sep2020 May	2021 Jan2022 Sep2022	Feb 2023 Mar 2023 Jun 2023	Oct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091804	GFL0091822	GFL0086604
Sample Date		Client Info		18 Oct 2023	10 Oct 2023	11 Sep 2023
Machine Age	hrs	Client Info		22570	22527	22322
Oil Age	hrs	Client Info		22570	22527	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	SEVERE
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	2	4	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	2
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	1
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	51	56	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	910	877	966
Calcium	ppm	ASTM D5185m	1070	941	960	1098
Phosphorus	ppm	ASTM D5185m	1150	892	961	988
Zinc	ppm	ASTM D5185m	1270	1150	1140	1224
Sulfur	ppm	ASTM D5185m	2060	2799	3082	3492
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	4
Sodium	ppm	ASTM D5185m		2	<1	3
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Fuel	%	ASTM D3524	>3.0	2.1	▲ 3.6	5.7
Water	%	ASTM D6304	>0.2	△ 0.164		
ppm Water	ppm	ASTM D6304	>2000	1640		
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	4.9	6.0	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.6	17.9	18.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	14.2	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	8.9	6.4



OIL ANALYSIS REPORT

