

PROBLEM SUMMARY

10444 AUTOCAR ISL

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)

COMPONENT CONDITION SUMMARY







GLYCOL



RECOMMENDATION

We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ABNORMAL	SEVERE			
Iron	ppm	ASTM D5185m	>75	<u> </u>	51	57			
Sodium	ppm	ASTM D5185m		<mark>/</mark> 98	1 40	5 17			
Potassium	ppm	ASTM D5185m	>20	<u> </u>	4	8			
Fuel	%	ASTM D3524	>3.0	A 3.2	4.8	18.6			

Sample Rating Trend

Customer Id: GFL001 Sample No.: GFL0052308 Lab Number: 05664552 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</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.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS

GLYCOL

04 Mar 2021 Diag: Jonathan Hester

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.All component wear rates are normal. Sodium and/or potassium levels are high. There is a moderate amount of fuel present in the oil. Test for glycol is negative. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report



FUEL

15 Sep 2020 Diag: Jonathan Hester

We advise that you check for possible coolant leak. We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. 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.

04 Aug 2020 Diag: Jonathan Hester



We advise that you check for possible coolant leak. We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. 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.

view report



OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

10444 AUTOCAR ISL

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (48 QTS)

DIAGNOSIS

Recommendation

We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

📥 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Sodium and/or potassium levels are high. Light fuel dilution occurring.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.



SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0052308	PCA0032072	PCA0026462
Sample Date		Client Info		10 Oct 2022	04 Mar 2021	15 Sep 2020
Machine Age	mls	Client Info		866	169849	169849
Oil Age	mls	Client Info		843	520	915
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>75	114	51	57
Chromium	ppm	ASTM D5185m	>5	3	1	3
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>15	10	6	16
Lead	ppm	ASTM D5185m	>25	4	1	3
Copper	ppm	ASTM D5185m	>100	4	3	3
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	15	16	4
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	70	60	48
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	771	824	782
Calcium	ppm	ASTM D5185m	1070	1208	1068	899
Phosphorus	ppm	ASTM D5185m	1150	870	959	706
Zinc	ppm	ASTM D5185m	1270	1130	1091	926
Sulfur	ppm	ASTM D5185m	2060	3276	2402	1927
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	10	7	8
Sodium	ppm	ASTM D5185m		<mark>/</mark> 98	1 40	<u>▲</u> 517
Potassium	ppm	ASTM D5185m	>20	4 1	4	8
Fuel	%	ASTM D3524	>3.0	A 3.2	4 .8	18.6
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	2.5	1	2.6
Nitration	Abs/cm	*ASTM D7624	>20	16.6	10.1	16
Sulfation	Abs/.1mm	*ASTM D7415	>30	32.9	23	32.2
FLUID DEGRAD	OATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.6	19.7	32.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.4	8	7.8



OIL ANALYSIS REPORT

