

Machine Id 10630 Component **Diesel Engine**

1200

1000

800

400

200

0

Mav23/1

قd 600

Elui

PROBLEM SUMMARY

0.40

0.30

0.20 %glyco

10

00

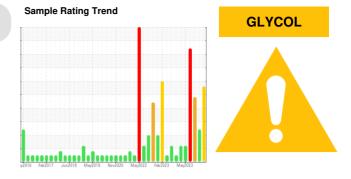
Feb7/23

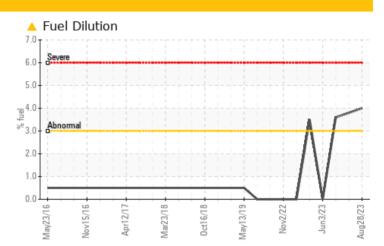
May26/23

Vov27/20

May11/22

Mav13/19





RECOMMENDATION

Feb 9/17

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

un26/

PETRO CANADA DURON SHP 15W40 (7 GAL)

COMPONENT CONDITION SUMMARY

Glycol Contamination

sodium

n potassium

PROBLEMATIC TEST RESULTS	
Sample Status	ABNOF

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Sodium	ppm	ASTM D5185m		<u> </u>	2 04	▲ 757
Potassium	ppm	ASTM D5185m	>20	<u> </u>	5	11
Fuel	%	ASTM D3524	>3.0	4.0	3 .8	3 .6
Glycol	%	*ASTM D2982		0.06	NEG	NEG

Customer Id: GFL010 Sample No.: GFL0091379 Lab Number: 05938582 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDEL	MENDED ACTIONS				
Action	Status	Date	Done By	Description	
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.	
Flush System			?	We advise that you flush the component thoroughly before re-filling with oil.	
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



01 Aug 2023 Diag: Jonathan Hester

We advise that you check for possible coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels remain high. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.





11 Jul 2023 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity.



GLYCOL

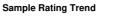
03 Jun 2023 Diag: Wes Davis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol 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.

view report



OIL ANALYSIS REPORT



Machine Id 10630

Component

Diesel Engine Fluic

PETRO CANADA DURON SHP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

Wear

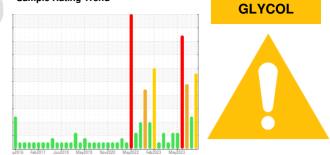
All component wear rates are normal.

Contamination

Test for glycol is positive. There is a moderate amount of fuel present in the oil. There is a moderate concentration of glycol present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

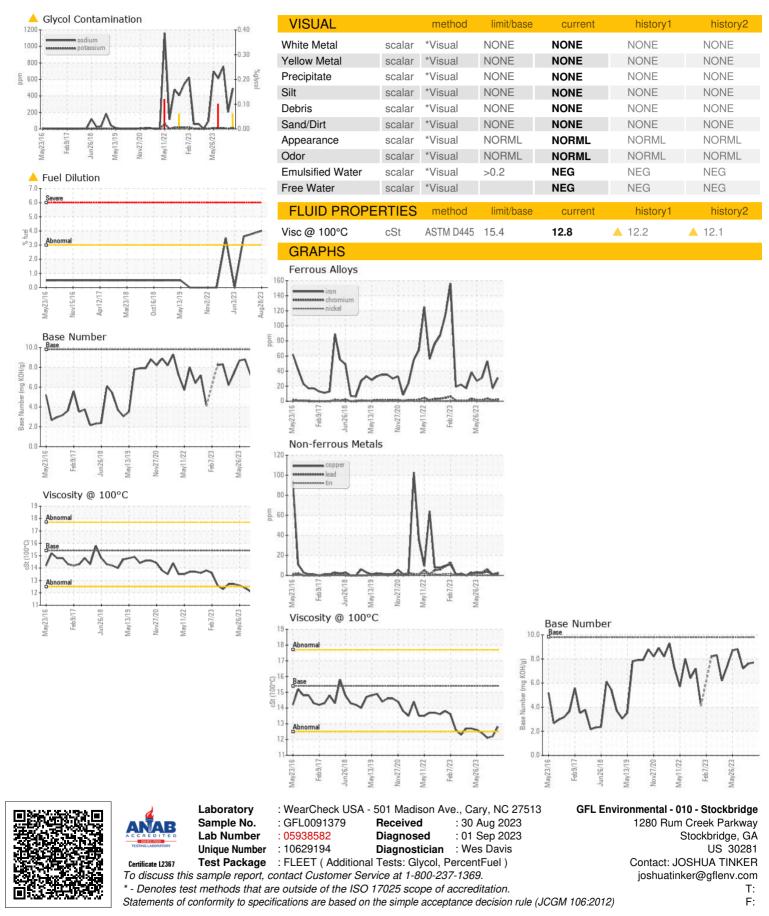
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091379	GFL0088782	GFL0086131
Sample Date		Client Info		28 Aug 2023	01 Aug 2023	11 Jul 2023
Machine Age	hrs	Client Info		5870	5679	5533
Oil Age	hrs	Client Info		1119	146	960
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	31	17	53
Chromium	ppm	ASTM D5185m	>5	2	1	4
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	7	3	1 2
Lead	ppm	ASTM D5185m	>25	2	<1	6
Copper	ppm	ASTM D5185m	>100	<1	1	4
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	7	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	73	58	88
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	774	688	716
Calcium	ppm	ASTM D5185m	1070	1025	1021	1067
Phosphorus	ppm	ASTM D5185m	1150	884	826	787
Zinc	ppm	ASTM D5185m	1270	1110	1040	1057
Sulfur	ppm	ASTM D5185m		3364	3084	3231
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	23	11	▲ 33
Sodium	ppm	ASTM D5185m		4 91	<u> </u>	▲ 757
Potassium	ppm	ASTM D5185m	>20	<u>▲</u> 10	5	11
Fuel	%	ASTM D3524	>3.0	4.0	▲ 3.8	3 .6
Glycol	%	*ASTM D2982		▲ 0.06	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.9	1.1	2
Nitration	Abs/cm	*ASTM D7624		10.0	7.4	11.4
	Abs/.1mm	*ASTM D7415		20.7	18.9	23.1
Sulfation	A05/.111111	AOTIVI DI TI I J	200	2011		
Sulfation FLUID DEGRAD			limit/base	current	history1	history2
			limit/base	-		



OIL ANALYSIS REPORT



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