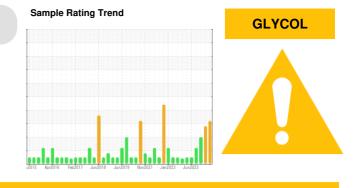
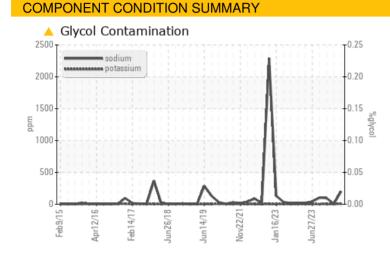


Machine Id **10530** Component **Diesel Engine**

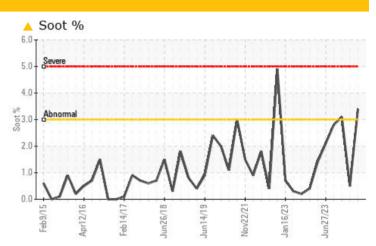
Fluid

PROBLEM SUMMARY





PETRO CANADA DURON SHP 15W40 (7 GAL)



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	SEVERE	ABNORMAL			
Sodium	ppm	ASTM D5185m		<u> </u>	6	9 6			
Soot %	%	*ASTM D7844	>3	A 3.4	0.5	3 .1			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	A 3.7	5.8	5.3			

Customer Id: GFL010 Sample No.: GFL0088708 Lab Number: 05929438 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 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.			
Change Filter			?	We recommend you service the filters on this component.			
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



16 Aug 2023 Diag: Wes Davis

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. Please specify the component make and model with your next sample.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.



view report

GLYCOL



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. Sodium and/or potassium levels remain high. There is an abnormal amount of solids and carbon present in the oil. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



10 Jul 2023 Diag: Jonathan Hester

01 Aug 2023 Diag: Jonathan Hester

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. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT



GLYCOL

Machine Id 10530

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

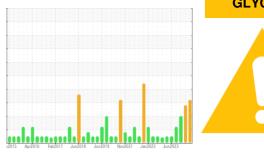
All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Fuel content negligible. There is an abnormal amount of solids and carbon present in the oil.

Fluid Condition

The BN level is low.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088708	GFL0088718	GFL0088789
Sample Date		Client Info		18 Aug 2023	16 Aug 2023	01 Aug 2023
Machine Age	hrs	Client Info		20633	20488	20481
Oil Age	hrs	Client Info		332	187	746
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	SEVERE	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	55	14	51
Chromium	ppm	ASTM D5185m	>20	2	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	2	8
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	3	9	4
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	8	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	51	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	733	656	730
Calcium	ppm	ASTM D5185m	1070	1152	984	1128
Phosphorus	ppm	ASTM D5185m	1150	907	779	871
Zinc	ppm	ASTM D5185m	1270	1132	959	1110
Sulfur	ppm	ASTM D5185m	2060	2762	2748	2995
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	6	13
Sodium	ppm	ASTM D5185m		<u> </u>	6	<u> </u>
Potassium	ppm	ASTM D5185m	>20	10	3	3
Fuel	%	ASTM D3524	>5	1.3	12.1	<1.0
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	A 3.4	0.5	A 3.1
Nitration	Abs/cm	*ASTM D7624		11.7	9.2	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2	18.4	25.1
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.3	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	A 3.7	5.8	5.3



OIL ANALYSIS REPORT

