

Sample Rating Trend GLYCOL



Machine Id 10649

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (10 GAL)

COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	ABNORMAL			
Sodium	ppm	ASTM D5185m		<u> </u>	A 3162	60			
Potassium	ppm	ASTM D5185m	>20	🔺 215	🔺 1685	14			
Glycol	%	*ASTM D2982		0.10	0.20	NEG			

Customer Id: GFL005 Sample No.: GFL0092702 Lab Number: 05996517 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

RECOMMENDED 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



04 Oct 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.Cylinder, crank, or cam shaft wear is indicated. Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. 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.





17 May 2023 Diag: Sean Felton

No corrective action is recommended at this time. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. 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.







31 Jan 2023 Diag: Wes Davis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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

GLYCOL

Machine Id 10649

Component

Diesel Engine Fluic

PETRO CANADA DURON SHP 15W40 (10 GA

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 high concentration of glycol present 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.

GAL)		ct2016 Aug20	17 Oct2018 Jun2019 N	Tar2020 Sep2020 Mar2021 Apr202	2 0et2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092702	GFL0092695	GFL0072341
Sample Date		Client Info		25 Oct 2023	04 Oct 2023	17 May 2023
Machine Age	hrs	Client Info		13201	13006	10315
Oil Age	hrs	Client Info		195	562 Okanana d	10315
Oil Changed		Client Into		N/A		
		and the set	line it //s a a a	SEVERE	SEVERE	ADNORIVIAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
ruei		WC Method	>0	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	51	• 332	1 29
Chromium	ppm	ASTM D5185m	>20	1	7	5
Nickel	ppm	ASTM D5185m	>4	<1	3	<1
Litanium	ppm	ASTM D5185m	0	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aiuminum	ppm	ASTM D5185m	>20	.1	<u> </u>	15
Coppor	ppm	ASTM D5105III	>40	<1	5	5
Tin	ppm	ASTM D5185m	>330	4	1	-1
Vanadium	npm	ASTM D5185m	210	0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	historv1	historv2
Paran	nnm	ACTM DE105m	0	7	4.4	6
Barium	ppm	ASTM D5185m	0	7	11	0
Molybdenum	ppm	ASTM D5185m	60	78	195	65
Manganese	ppm	ASTM D5185m	0	<1	4	2
Magnesium	ppm	ASTM D5185m	1010	845	632	972
Calcium	ppm	ASTM D5185m	1070	1082	1065	1185
Phosphorus	ppm	ASTM D5185m	1150	950	863	1084
Zinc	ppm	ASTM D5185m	1270	1149	1009	1354
Sulfur	ppm	ASTM D5185m	2060	3238	2792	3393
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	6 6	14
Sodium	ppm	ASTM D5185m		<u> </u>	A 3162	60
Potassium	ppm	ASTM D5185m	>20	<u> </u>	1 685	14
Glycol	%	*ASTM D2982		• 0.10	0.20	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	1.5	2.4
Nitration	Abs/cm	*ASTM D7624	>20	8.9	23.3	17.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	30.3	34.1
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	22.6	34.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.9	15.6	5.0



OIL ANALYSIS REPORT



Submitted By: WALTER SKOKOWSKI