

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check for the source of the 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				SEVERE	SEVERE	SEVERE			
Silicon	ppm	ASTM D5185m	>20	ම 37	• 48	45			
Sodium	ppm	ASTM D5185m		<u> </u>	A 3156	<u> </u>			
Potassium	ppm	ASTM D5185m	>20	<u> </u>	9 7	<u> </u>			
Glycol	%	*ASTM D2982		• 0.10	0.12	NEG			

Customer Id: GFL419 Sample No.: GFL0086853 Lab Number: 06004840 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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			?	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 Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			
Check Glycol Access			?	We advise that you check for the source of the coolant leak.			

HISTORICAL DIAGNOSIS

06 Oct 2023 Diag: Don Baldridge



We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. 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 positive. There is a high concentration of glycol present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil is no longer serviceable due to the presence of contaminants.





06 Sep 2023 Diag: Angela Borella

We advise that you check for the source of the coolant leak. Check for low coolant level. 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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

DIRT



30 Aug 2023 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. 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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil.





OIL ANALYSIS REPORT

Sample Rating Trend



Component Diesel Engine Fluid

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

DIAGNOSIS Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check for the source of the 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.

Machine Id 422101

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive. There is a high concentration of glycol present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086853	GFL0086856	GFL0086839
Sample Date		Client Info		06 Nov 2023	06 Oct 2023	06 Sep 2023
Machine Age	hrs	Client Info		20913	20913	20913
Oil Age	hrs	Client Info		20913	20913	20913
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	25	30	25
Chromium	ppm	ASTM D5185m	>5	4	5	5
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	4	2	<1
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>150	79	107	99
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	32	30	30
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	145	185	161
Manganese	ppm	ASTM D5185m	0	1	1	<1
Magnesium	ppm	ASTM D5185m	1010	890	980	925
Calcium	ppm	ASTM D5185m	1070	1050	1213	1141
Phosphorus	ppm	ASTM D5185m	1150	793	920	797
Zinc	ppm	ASTM D5185m	1270	1288	1404	1229
Sulfur	ppm	ASTM D5185m	2060	3067	3734	3547
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9 37	48	• 45
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	<u> </u>
Potassium	ppm	ASTM D5185m	>20	<mark>/</mark> 70	▲ 97	<u> </u>
Glycol	%	*ASTM D2982		0.10	0.12	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	1.3	1.3
Nitration	Abs/cm	*ASTM D7624	>20	15.4	14.4	15.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	25.3	25.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	16.3	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	12.3	11.9	12.5



OIL ANALYSIS REPORT

