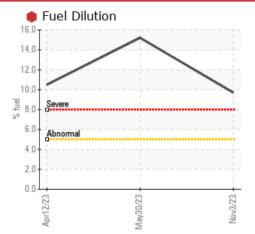
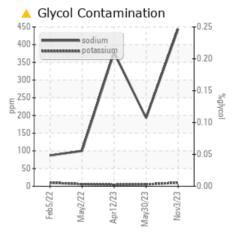


Machine Id 722026-261545

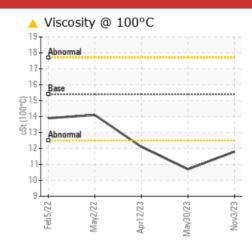
Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Sodium	ppm	ASTM D5185m		🔺 444	1 93	▲ 378		
Fuel	%	ASTM D3524	>5	9.7	15.2	1 0.5		
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	▲ 10.7	▲ 12.1		

Customer Id: GFL837 Sample No.: GFL0098598 Lab Number: 06006216 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 jhester@wearcheckusa.com

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		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		
Check Glycol Access			?	We advise that you check for the source of the coolant leak.		

HISTORICAL DIAGNOSIS



30 May 2023 Diag: Angela Borella

12 Apr 2023 Diag: Jonathan Hester

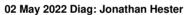
We advise that you check for possible coolant leak. Check for low coolant level. We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. 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.



view report



We advise that you check for possible coolant leak. Check for low coolant level. We advise that you check the fuel injection system. 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. 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.



OL.

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. 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.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 722026-261545

Component Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil.

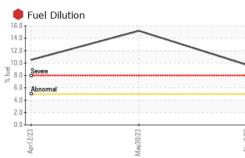
Fluid Condition

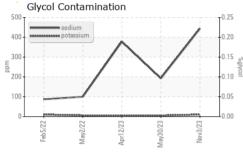
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

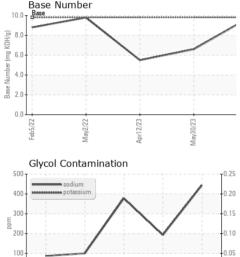
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098598	GFL0078556	GFL0078532
Sample Date		Client Info		03 Nov 2023	30 May 2023	12 Apr 2023
Machine Age	hrs	Client Info		19806	19082	18855
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	26	25	50
Chromium	ppm	ASTM D5185m	>4	1	2	3
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	2
Lead	ppm	ASTM D5185m	>45	1	2	0
Copper	ppm	ASTM D5185m	>85	45	0	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	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	11	9	14
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	54	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	829	799	793
Calcium	ppm	ASTM D5185m	1070	925	876	904
Phosphorus	ppm	ASTM D5185m	1150	947	851	836
Zinc	ppm	ASTM D5185m	1270	1158	1094	1059
Sulfur	ppm	ASTM D5185m	2060	2774	2689	3036
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	15	5	10
Sodium	ppm	ASTM D5185m		🔺 444	<u> </u>	A 378
Potassium	ppm	ASTM D5185m	>20	10	5	4
Fuel	%	ASTM D3524	>5	9.7	1 5.2	• 10.5
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.8	1.4
Nitration	Abs/cm	*ASTM D7624	>20	7.7	11.5	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	22.5	24.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	21.4	23.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.7	6.6	5.5



OIL ANALYSIS REPORT







Apr12/23

/lav30/23

Feb5/22

CICINEV



Certificate L2367