

REC	OMM	ENDA	ATION

Resample at the next service interval to monitor.

PROBLEMATIC	C TEST	RESULT	S			
Sample Status				ATTENTION	ATTENTION	SEVERE
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	1 1.0	• 7.2

Customer Id: GFL955 Sample No.: GFL0092419 Lab Number: 05984100 Test Package: FLEET



To manage this report scan the QR code

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

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

13 Oct 2023 Diag: Don Baldridge



Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

23 Aug 2023 Diag: Wes Davis

08 Aug 2023 Diag: Wes Davis



5 Aug 2025 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.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.



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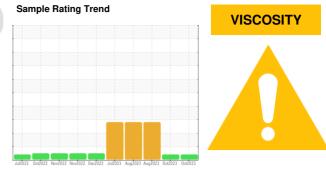
FUEL

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.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.





OIL ANALYSIS REPORT



Component **Diesel Engine** Fluid

MACK 420055

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0092419	GFL0092414	GFL0086050
Resample at the next service interval to monitor.	Sample Date		Client Info		17 Oct 2023	13 Oct 2023	23 Aug 2023
Wear	Machine Age	hrs	Client Info		9601	9574	9237
All component wear rates are normal.	Oil Age	hrs	Client Info		675	648	311
Contamination	Oil Changed		Client Info		N/A	Not Changd	N/A
here is no indication of any contamination in the	Sample Status				ATTENTION	ATTENTION	SEVERE
II.	CONTAMINAT	ION	method	limit/base	current	history1	history2
he oil viscosity is lower than normal. The BN result	Glycol		WC Method		NEG	NEG	NEG
dicates that there is suitable alkalinity remaining in e oil. Confirm oil type.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	6	7	1
	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	4	0
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	4	5	0
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	71	89	0
	Barium	ppm	ASTM D5185m	0	0	10	0
	Molybdenum	ppm	ASTM D5185m	60	79	78	39
	Manganese	ppm	ASTM D5185m	0	0	0	0
	Magnesium	ppm	ASTM D5185m	1010	304	158	683
	Calcium	ppm	ASTM D5185m	1070	1680	1695	753
	Phosphorus	ppm	ASTM D5185m	1150	895	870	699
	Zinc	ppm	ASTM D5185m	1270	1146	1021	858
	Sulfur	ppm	ASTM D5185m	2060	3609	3395	2561
	CONTAMINAN	TS	method	limit/base	current	history1	history2
		nnm	ASTM D5185m	>25	7	7	3
	Silicon	ppm					
	Silicon Sodium		ASTM D5185m		1	<1	0
			ASTM D5185m ASTM D5185m	>20			
	Sodium	ppm			1	<1	0
	Sodium Potassium	ppm ppm	ASTM D5185m		1 2 <1.0	<1 2	0 1 • 31.9
	Sodium Potassium Fuel	ppm ppm	ASTM D5185m ASTM D3524	>3.0 limit/base	1 2 <1.0	<1 2 2.0	0 1 • 31.9
	Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185m ASTM D3524 method	>3.0 limit/base >4	1 2 <1.0 current	<1 2 2.0 history1	0 1 31.9 history2
	Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm % % Abs/cm	ASTM D5185m ASTM D3524 method *ASTM D7844	>3.0 limit/base >4 >20	1 2 <1.0 <u>current</u> 0.1	<1 2 2.0 history1 0.1	0 1 ● 31.9 history2 0.1
	Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7844 *ASTM D7624	>3.0 limit/base >4 >20	1 2 <1.0 current 0.1 7.1 17.7	<1 2 2.0 history1 0.1 7.9	0 1 ● 31.9 history2 0.1 5.7 15.5
	Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/cm Abs/1mm	ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7844 *ASTM D7624	>3.0 limit/base >4 >20 >30 limit/base	1 2 <1.0 current 0.1 7.1 17.7	<1 2 2.0 history1 0.1 7.9 18.4	0 1 ● 31.9 history2 0.1 5.7

Base Number (BN) mg KOH/g ASTM D2896 9.8

6.5 6.7

6.5



OIL ANALYSIS REPORT

