

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. (Customer Sample Comment: OIL SAMPLE)

PROBLEMA	FIC TES	T RESULTS			
Sample Status			ABNORMAL	NORMAL	NORMAL
Soot %	%	*ASTM D7844 >3	A 3.7	1.9	0.7

Customer Id: GFL856 Sample No.: GFL0092089 Lab Number: 06025613 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 <u>customerservice@wearcheck.com</u>

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS



Resample at the next service interval to monitor.All component wear rates are normal. 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.



view report

24 Apr 2023 Diag: Wes Davis

08 Jun 2023 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. 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.

16 Jan 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 Piston, ring and cylinder wear is indicated. Bearing and/or bushing wear is indicated. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is an abnormal amount of solids and carbon present in the oil. The oil is no longer serviceable due to the presence of contaminants.







OIL ANALYSIS REPORT

Sample Rating Trend

SOOT

Machine Id 723027-305161 Component

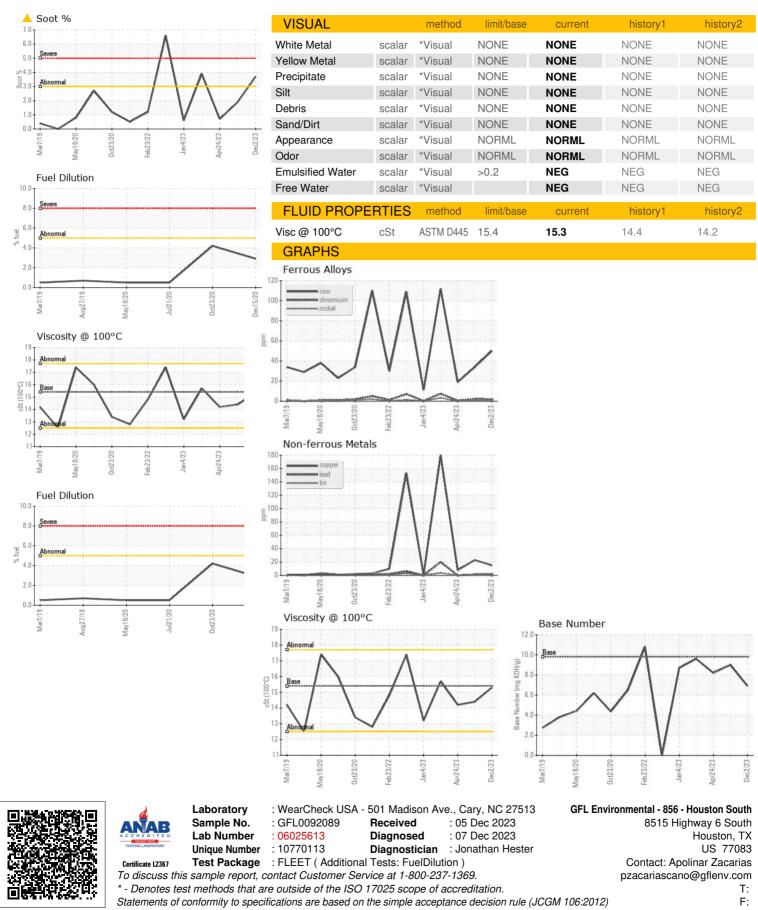
Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (CAL

					Heozuzz Janzuzs Aprzuzs	Decz023	
DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0092089	GFL0084568	GFL0078056
e recommend you service the filters on this	Sample Date		Client Info		02 Dec 2023	08 Jun 2023	24 Apr 2023
mponent. Resample at the next service interval to	Machine Age	mls	Client Info		305760	3966	305760
onitor. (Customer Sample Comment: OIL	Oil Age	mls	Client Info		304354	0	0
MPLE)	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
ear	Sample Status				-	NORMAL	NORMAL
component wear rates are normal.	CONTAMINAT		method	limit/base	current	history1	history2
Contamination ere is an abnormal amount of solids and carbon							
ere is an abhormar amount of solids and carborn	Water Glycol		WC Method WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
id Condition	,						
BN result indicates that there is suitable	WEAR METAL	S	method	limit/base	current	history1	history2
alinity remaining in the oil. The condition of the	Iron	ppm	ASTM D5185m	>80	50	34	19
s suitable for further service.	Chromium	ppm	ASTM D5185m	>5	2	2	<1
	Nickel	ppm	ASTM D5185m	>2	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	5	3
	Lead	ppm	ASTM D5185m		1	1	0
	Copper	ppm	ASTM D5185m		15	23	8
	Tin	ppm	ASTM D5185m		0	1	0
	Vanadium	ppm	ASTM D5185m	20	0	<1	0
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES	pp	method	limit/base	-	history1	history2
	Boron	ppm	ASTM D5185m		0	0	<1
	Barium		ASTM D5185m		2	0	0
		ppm				60	
	Molybdenum	ppm	ASTM D5185m		61	1	62
	Manganese	ppm	ASTM D5185m		0	074	<1
	Magnesium	ppm	ASTM D5185m		902	974	1004
	Calcium	ppm	ASTM D5185m		1067	1139	1194
	Phosphorus	ppm	ASTM D5185m		933	1022	1067
	Zinc	ppm	ASTM D5185m		1171	1272	1292
	Sulfur	ppm	ASTM D5185m	2060	2737	3415	3462
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
						10	8
	Silicon	ppm	ASTM D5185m	>20	10	12	0
	Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>20	10 11	31	29
	Sodium	ppm	ASTM D5185m	>20	11	31	29
	Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	11 4 <1.0	31 3	29 0 <1.0
	Sodium Potassium Fuel	ppm ppm	ASTM D5185m ASTM D5185m ASTM D3524	>20 >5 limit/base	11 4 <1.0	31 3 <1.0	29 0 <1.0
	Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method	>20 >5 limit/base >3	11 4 <1.0 current	31 3 <1.0 history1	29 0 <1.0 history2
	Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>20 >5 limit/base >3 >20	11 4 <1.0 <u>current</u> ▲ 3.7	31 3 <1.0 history1 1.9	29 0 <1.0 history2 0.7
	Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >5 limit/base >3 >20	11 4 <1.0 current ▲ 3.7 14.9 29.2	31 3 <1.0 history1 1.9 12.7	29 0 <1.0 history2 0.7 7.6
	Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >5 limit/base >3 >20 >30 limit/base	11 4 <1.0 current ▲ 3.7 14.9 29.2	31 3 <1.0 history1 1.9 12.7 23.6	29 0 <1.0 history2 0.7 7.6 18.1



OIL ANALYSIS REPORT



Submitted By: Apolinar Zacarias Page 4 of 4