

Machine Id 227068-9

Component Diesel Engine

Fluic

PROBLEM SUMMARY

Dec21/23

Sample Rating Trend FUEL

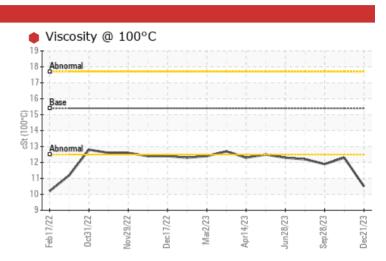
COMPONENT CONDITION SUMMARY

0ct31/22

Sep28/23

Vov16/23

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



RECOMMENDATION

0.0

Feb17/22

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.

May17/22

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	MARGINAL	MARGINAL			
Fuel	%	ASTM D3524	>5	8.8	4 .8	4 .1			
Visc @ 100°C	cSt	ASTM D445	15.4	🛑 10.5	12.3	11.9			

Customer Id: GFL166 Sample No.: GFL0100256 Lab Number: 06046726 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.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS



16 Nov 2023 Diag: Wes Davis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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

28 Sep 2023 Diag: Wes Davis



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.



26 Jul 2023 Diag: Wes Davis



ORMAL

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.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 227068-9 Component

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

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

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.

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100256	GFL0100230	GFL0091217
Sample Date		Client Info		21 Dec 2023	16 Nov 2023	28 Sep 2023
Machine Age	mls	Client Info		993263	395323	993263
Oil Age	mls	Client Info		993263	0	0
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				SEVERE	MARGINAL	MARGINAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	11	8	25
Chromium	ppm	ASTM D5185m	>5	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	1	1	3
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	0	0	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	59	65
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	907	941	935
Calcium	ppm	ASTM D5185m	1070	1022	976	1036
Phosphorus	ppm	ASTM D5185m	1150	987	1007	1054
Zinc	ppm	ASTM D5185m	1270	1126	1215	1273
Sulfur	ppm	ASTM D5185m	2060	2903	2945	3388
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	3	7
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Fuel	%	ASTM D3524	>5	8.8	4.8	4 .1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.7	8.1	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.4	21.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	16.3	20.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	9.1	8.2



OIL ANALYSIS REPORT

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

10.5

Dec21/23

lec21/23

Dec21/23

: 02 Jan 2024

12.

Base Number

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.3

NONE

NONE

NONE

NONE

NONE

NONE

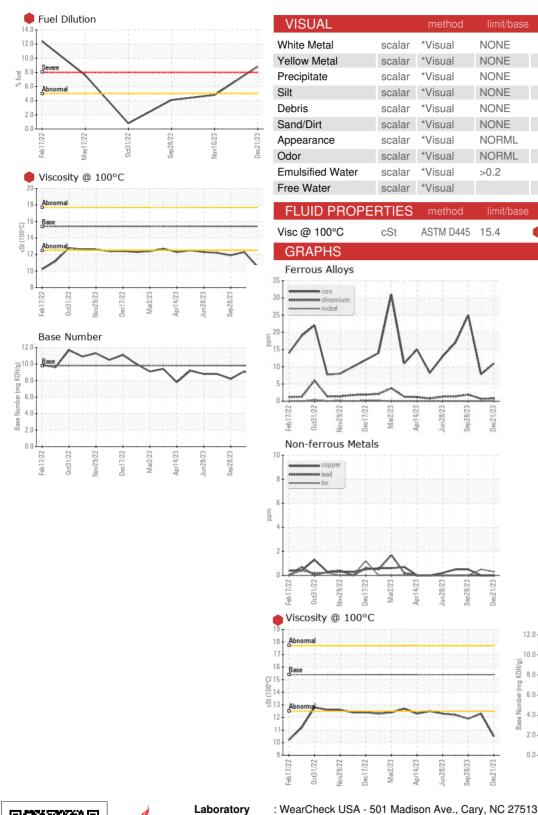
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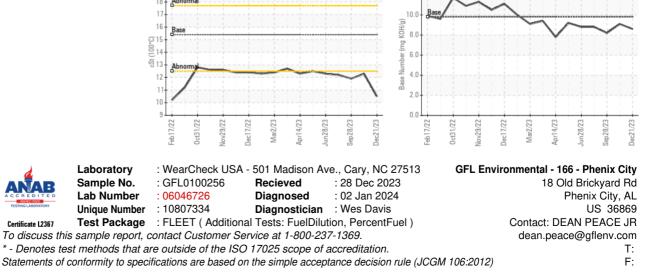
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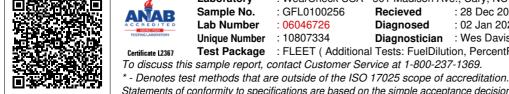
NEG

NEG

11.9







Sample No.

Lab Number

Unique Number

: GFL0100256

:06046726

: 10807334

Recieved

Diagnosed

Diagnostician : Wes Davis

Submitted By: DARRIN WRIGHT