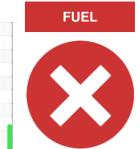


PROBLEM SUMMARY

Sample Rating Trend

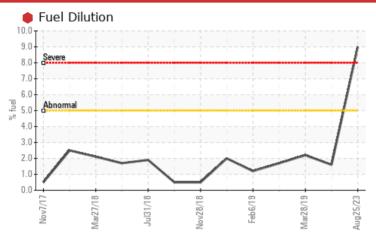


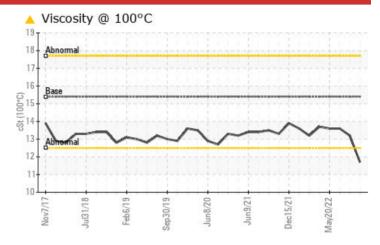
Machine Id **10812**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (11 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	NORMAL			
Fuel	%	ASTM D3524	>5	9.0	<1.0	<1.0			
Visc @ 100°C	cSt	ASTM D445	15.4	11.7	13.2	13.6			

Customer Id: GFL031 Sample No.: GFL0050895 Lab Number: 05936557 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 Resample -- -- ? We recommend an early resample to monitor this condition. Check Fuel/injector 2 We add itset the true about the first time system.

We advise that you check the fuel injection system.

HISTORICAL DIAGNOSIS

17 May 2023 Diag: Wes Davis

NORMAL

System



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.



04 Jul 2022 Diag: Wes Davis

NORMAL



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

20 May 2022 Diag: Don Baldridge

NORMAL



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

Machine Id 10812 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)

Sample Rating Trend **FUEL**

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. 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.

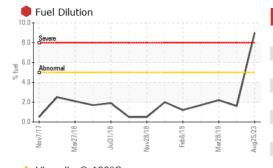
▲ Fluid Condition

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.

GAL)		v2017 Jul20	18 Feb2019 Sep2019	Jun2020 Jun2021 Dec2021	May2022	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0050895	GFL0050877	GFL0050822
Sample Date		Client Info		25 Aug 2023	17 May 2023	04 Jul 2022
Machine Age	hrs	Client Info		16260	15756	12894
Oil Age	hrs	Client Info		504	15756	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	59	14	16
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	7	2	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
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	8	8	10
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	64	67	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	785	904	940
Calcium	ppm	ASTM D5185m	1070	1074	1126	1090
Phosphorus	ppm	ASTM D5185m	1150	907	1036	1026
Zinc	ppm	ASTM D5185m	1270	1098	1255	1244
Sulfur	ppm	ASTM D5185m	2060	2833	3114	3611
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	5	4
Sodium	ppm	ASTM D5185m		28	7	8
Potassium	ppm	ASTM D5185m	>20	2	2	0
Fuel	%	ASTM D3524	>5	9.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.5	0.5
Nitration	Abs/cm	*ASTM D7624		11.0	9.1	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.9	20.1
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	16.1	16.7
Base Number (BN)	mg KOH/g			7.5	8.2	8.7
Dage Number (DIV)	mg Norly	ACTIVIDEDUDO	0.0	1.0	0.2	0.7



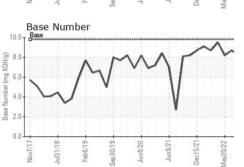
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
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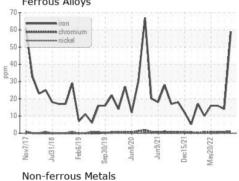
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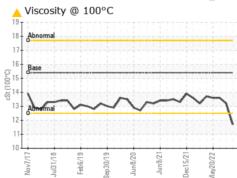
Ferrous Alloys

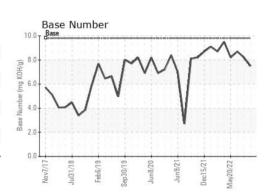
GRAPHS





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Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: 05936557

: GFL0050895 : 10621828

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 28 Aug 2023 : 29 Aug 2023 Diagnostician : Wes Davis

Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 031 - Greenville/Spartanburg 1635 Antioch Church Rd Piedmont, SC

US 29673 Contact: TECHNICIAN ACCOUNT

catherine.anastasio@wearcheck.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: