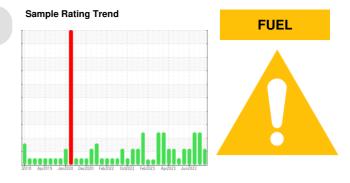


Machine Id **10858** Component **Diesel Engine**

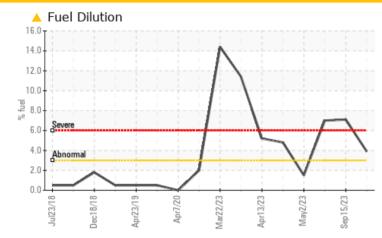
Fluic

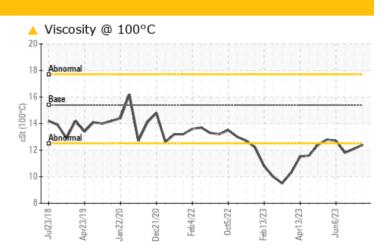
PROBLEM SUMMARY



COMPONENT CONDITION SUMMARY

PETRO CANADA DURON SHP 15W40 (29 GAL)





RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Fuel	%	ASTM D3524	>3.0	A 3.9	▲ 7.1	▲ 7.0		
Visc @ 100°C	cSt	ASTM D445	154	A 12 4	A 12 1	A 11.8		

Customer Id: GFL010 Sample No.: GFL0097862 Lab Number: 05986046 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.		

HISTORICAL DIAGNOSIS



15 Sep 2023 Diag: Don Baldridge

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels remain high. There is a moderate amount of fuel present in the oil. Test for glycol is negative. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



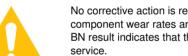
01 Sep 2023 Diag: Jonathan Hester



We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels remain high. There is a moderate amount of fuel present in the oil. Test for glycol is negative. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

06 Jun 2023 Diag: Jonathan Hester





No corrective action is recommended at this time. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels remain 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



view report





OIL ANALYSIS REPORT



FUEL

Machine Id 10858

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (29 GAL)

DIAGNOSIS

Recommendation

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 moderate 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)						
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097862	GFL0094330	GFL0091401
Sample Date		Client Info		12 Oct 2023	15 Sep 2023	01 Sep 2023
Machine Age	hrs	Client Info		1370	1263	1121
Dil Age	hrs	Client Info		484	377	335
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>75	30	37	21
Chromium	ppm	ASTM D5185m	>5	2	2	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	4	4	3
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	10	25	17
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	12	16	16
Barium	ppm	ASTM D5185m	0	<1	0	0
Volybdenum	ppm	ASTM D5185m	60	50	60	58
Vanganese	ppm	ASTM D5185m	0	1	2	<1
Magnesium	ppm	ASTM D5185m	1010	729	778	722
Calcium	ppm	ASTM D5185m	1070	928	1209	1110
Phosphorus	ppm	ASTM D5185m	1150	734	699	699
Zinc	ppm	ASTM D5185m	1270	952	928	881
Sulfur	ppm	ASTM D5185m	2060	2238	2748	2634
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	12	10
Sodium	ppm	ASTM D5185m		52	1 23	1 08
Potassium	ppm	ASTM D5185m	>20	10	20	15
Fuel	%	ASTM D3524	>3.0	A 3.9	▲ 7.1	▲ 7.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.8	0.5
Nitration	Abs/cm	*ASTM D7624		8.3	11.0	9.1
Sulfation	Abs/.1mm	*ASTM D7415		18.9	20.8	19.3
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	18.8	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.0	6.3	7.7



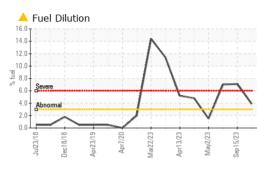
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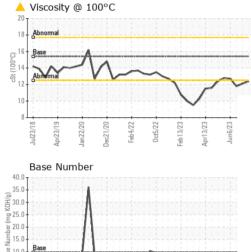
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OIL ANALYSIS REPORT



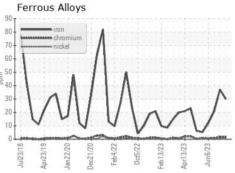


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eb 13/23 Apr13/23

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
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	▲ 12.1	▲ 11.8
GRAPHS						

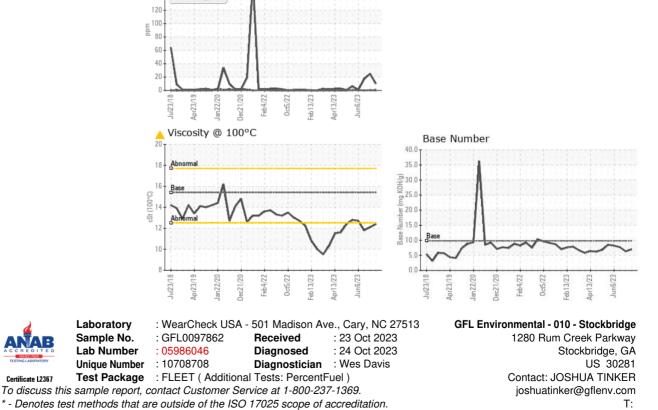


Non-ferrous Metals

180

160 140

Jun6/23



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

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