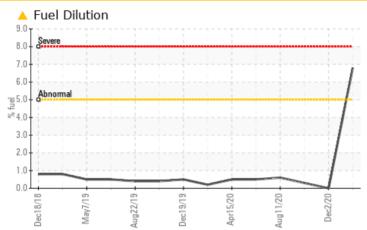
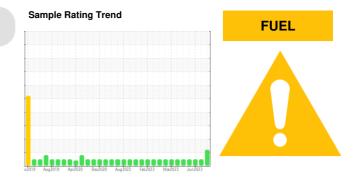


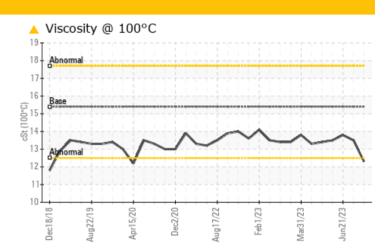
Machine Id 429049-402451

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

COMPONENT CONDITION SUMMARY







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	NORMAL	NORMAL		
Fuel	%	ASTM D3524	>5	6.8	<1.0	<1.0		
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	13.5	13.8		

Customer Id: GFL836 Sample No.: GFL0087148 Lab Number: 05920030 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

RECOMMEND	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



17 Jul 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.



view report

21 Jun 2023 Diag: Jonathan Hester



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.

30 May 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.







OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

2018 Aug2019 Aug2020 Dec2020 Aug2022 Feb2023 Mar2023 Jun2023

	• • • • • • • • • • • • • • • • • • •	:2018 Aug2	019 Apr2020 Dec2020	Aug2022 Feb2023 Mar2023	Jun2023	
	SAMPLE INFORMA	TION method	limit/base	current	history1	history2
	Sample Number	Client Info		GFL0087148	GFL0087198	GFL0083796
in the oil from the	Sample Date	Client Info		07 Aug 2023	17 Jul 2023	21 Jun 2023
ready been done. We ble to monitor this	Machine Age hi	rs Client Info		14447	14316	14112
	Oil Age hr	rs Client Info		0	0	600
	Oil Changed	Client Info		Not Changd	Not Changd	Not Changd
	Sample Status			ABNORMAL	NORMAL	NORMAL
e normal.	CONTAMINATIO	N method	limit/base	current	history1	history2
of fuel present in the ce of fuel in the oil.	Glycol	WC Method		NEG	NEG	NEG
	WEAR METALS	method	limit/base	current	history1	history2
here is suitable	lron pr	om ASTM D5185m	>110	10	12	8
Fuel is present in the	Chromium pr	om ASTM D5185m	>4	<1	1	<1
ty. The oil is no longer	Nickel pr	om ASTM D5185m	>2	0	0	0
ce of contaminants.	Titanium pr	om ASTM D5185m		0	0	0
	Silver pr	om ASTM D5185m	>2	<1	0	0
	Aluminum pr	om ASTM D5185m	>25	2	2	2
	Lead pr	om ASTM D5185m	>45	<1	<1	<1
	-	om ASTM D5185m	>85	1	<1	<1
		om ASTM D5185m	>4	<1	<1	<1
		om ASTM D5185m		0	0	0
		om ASTM D5185m		0	0	0
	ADDITIVES	method	limit/base	current	history1	history2
	Boron pr	om ASTM D5185m	0	<1	2	2
		om ASTM D5185m		0	<1	0
		om ASTM D5185m	60	60	65	61
		om ASTM D5185m	0	<1	<1	<1
		om ASTM D5185m	1010	870	1047	983
		om ASTM D5185m		1024	1155	1057
		om ASTM D5185m	1150	971	1104	1049
		om ASTM D5185m	1270	1158	1362	1310
		om ASTM D5185m	2060	3050	3717	3764
	CONTAMINANTS	method	limit/base	current	history1	history2
	Silicon p	om ASTM D5185m	>30	3	11	8
		om ASTM D5185m		2	2	<1
		om ASTM D5185m	>20	3	1	1
	Fuel %		>5	<mark>/</mark> 6.8	<1.0	<1.0
	INFRA-RED	method	limit/base	current	history1	history2
	Soot % %	*ASTM D7844	>3	0.4	0.3	0.2
		os/cm *ASTM D7624		7.0	9.8	7.4
		s/.1mm *ASTM D7415		18.3	20.0	19.9
	FLUID DEGRADA	TION method	limit/base	current	history1	history2
		s/.1mm *ASTM D7414	>25	14.6	16.6	16.0
		KOH/g ASTM D2896		8.2	8.2	8.5
	Dase Multiber (DN)	Noning Activi D2090	5.0	0.2	0.2	0.5

Machine Id 429049-402451

Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- 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.



Decl

10.0 Base

6 lumber

4.

0.0

Dec18/18

(mg KOH/g)

Base

Base Number

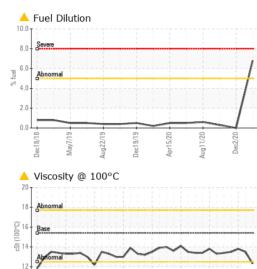
Aug22/19

Apr15/20

00/2-a0

Aug 17/22

OIL ANALYSIS REPORT



ah1/22

Feb1/23

ug17/22

1/72

Jun21/23

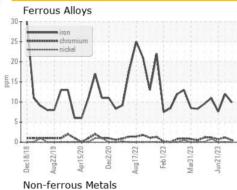
Mar31/23

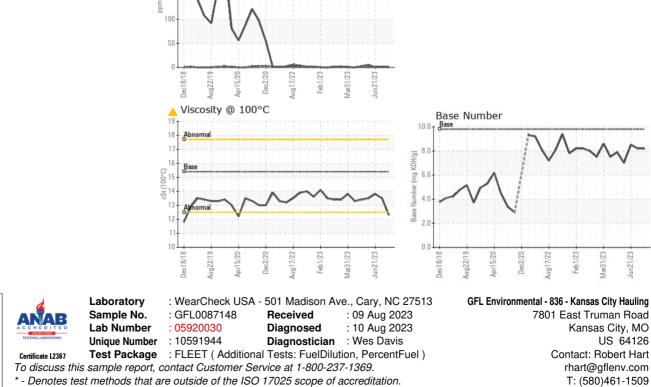
25

200 150

Mar31/23

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	12.3	13.5	13.8
GRAPHS						
Farraus Alleva						





* - 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)

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836

F: