

OIL ANALYSIS REPORT

Sample Rating Trend



Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

N SHP 10W30 (GAL)	Sep2017 Nov2	2017 May2018 Nov2018 Jul2	019 Oct2021 Mar2022 Jul2022 May	2023 Jul2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085922	GFL0077985	GFL0054193
Sample Date		Client Info		03 Jul 2023	13 May 2023	19 Jul 2022
Achine Age	kms	Client Info		258577	17448	0
Dil Age	kms	Client Info		0	0	0
Dil Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
alycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	23	46	34
Chromium	ppm	ASTM D5185(m)	>5	2	3	2
lickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
ïtanium	ppm	ASTM D5185(m)		0	0	<1
liver	ppm	ASTM D5185(m)	>3	0	0	0
luminum	ppm	ASTM D5185(m)	>30	2	3	3
ead	ppm	ASTM D5185(m)	>30	<1	<1	2
Copper	ppm	ASTM D5185(m)	>150	1	2	2
ïn	ppm	ASTM D5185(m)	>5	0	0	<1
ntimony	ppm	ASTM D5185(m)		0	0	0
anadium	ppm	ASTM D5185(m)		0	0	0
eryllium	ppm	ASTM D5185(m)		0	0	0
admium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	2	<1	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
lolybdenum	ppm	ASTM D5185(m)	50	52	52	52
langanese	ppm	ASTM D5185(m)	0	<1	<1	<1
lagnesium	ppm	ASTM D5185(m)	950	870	848	854
alcium	ppm	ASTM D5185(m)	1050	909	956	948
hosphorus	ppm	ASTM D5185(m)	995	959	932	867
inc	ppm	ASTM D5185(m)	1180	1068	1033	1063
Sulfur	ppm	ASTM D5185(m)	2600	2302	2190	2191
ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	6	11	6
Sodium	ppm	ASTM D5185(m)		6	8	11
otassium	ppm	ASTM D5185(m)	>20	<1	2	2
uel	%	ASTM D7593*	>5	8.8	9.6	▲ 5.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4	0.7	1
litration	Abs/cm	ASTM D7624*	>20	8.2	10.1	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	23.6	24.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
)vidation	Abo/1mm	ASTM D7414*	>25		24.4	24.3
Diualion	Abs/.1mm	A31WI D7414	>20	21.2	24.4	24.0
Oxidation 37:25) Rev: 1	ADS/. IIIIII	A31WI D7414	>20	21.2		24.0 By: Brian Gagr

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 oil is no longer serviceable due to the presence of contaminants.

FUEL

X



OIL ANALYSIS REPORT

>0.2

/av13/23

lav13/73

lav13/23

Mav13/23

NEG

NEG

Lead (ppm)

9.6

70

60

NEG

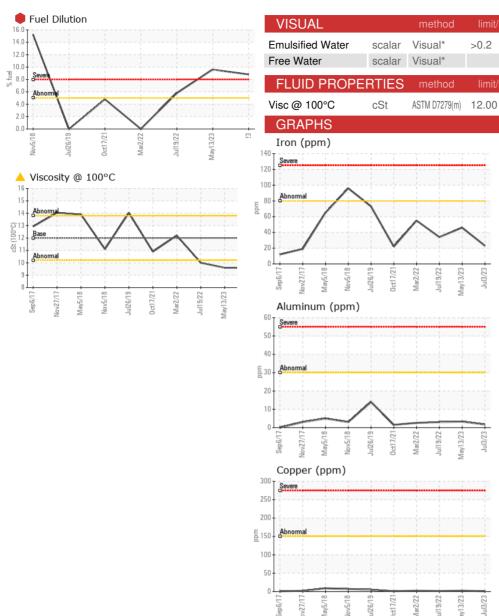
NEG

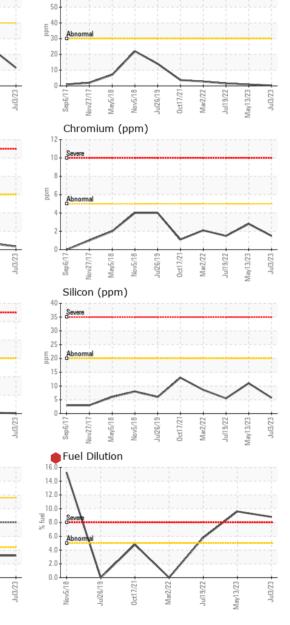
9.6

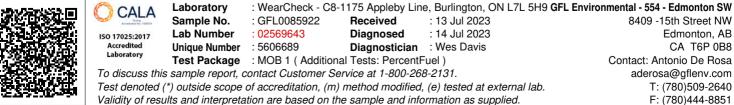
NEG

NEG

▲ 10.0







Mar2/22 -

Viscosity @ 100°C

16

15

14

B

Ab 10

Sep6/17.

Vov27/17

Mav5/1

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Submitted By: Brian Gagne

Page 2 of 2