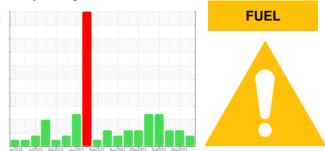


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

#### 7825 Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- LTR)

## DIAGNOSIS

#### Recommendation

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.

### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

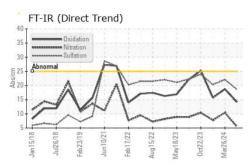
#### Fluid Condition

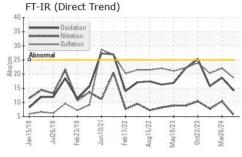
The condition of the oil is acceptable for the time in service.

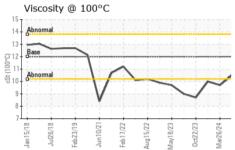
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0112497	GFL0112542	GFL0101707
Sample Date		Client Info		13 May 2024	26 Mar 2024	20 Nov 2023
Machine Age	hrs	Client Info		2659	0	21371
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	4	25	12
Chromium	ppm	ASTM D5185(m)		0	1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)		<1	2	1
Lead	ppm	ASTM D5185(m)	>45	0	0	<1
Copper	ppm	ASTM D5185(m)	>85	<1	1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	2	2	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	52	55	54
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	857	903	862
Calcium	ppm	ASTM D5185(m)	1050	927	991	941
Phosphorus	ppm	ASTM D5185(m)	995	881	904	899
Zinc	ppm	ASTM D5185(m)	1180	1036	1071	1064
Sulfur	ppm	ASTM D5185(m)	2600	2307	2225	2316
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	2	5	12
Sodium	ppm	ASTM D5185(m)		1	6	18
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel	%	ASTM D7593*	>5	<mark>/</mark> 2.6	▲ 7.3	<b>6</b> .1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0.8	0.4
Nitration	Abs/cm	ASTM D7624*	>20	5.5	10.4	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	22.1	20.3
		2				



# **OIL ANALYSIS REPORT**



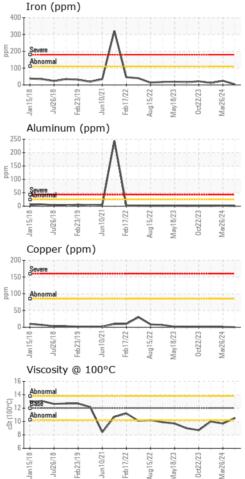




FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.2	18.7	15.7
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	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

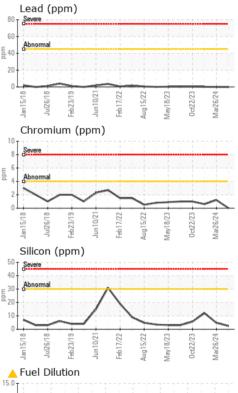
Visc @ 100°C





cSt

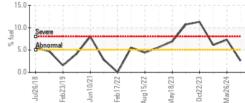
ASTM D7279(m) 12.00



**9**.7

10.5

▲ 10.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW CALA Sample No. : GFL0112497 Received : 23 May 2024 8409 -15th Street NW Lab Number : 02637106 Tested : 24 May 2024 Edmonton, AB ISO 17025:2017 Accredited Laboratory CA T6P 0B8 Unique Number : 5786268 Diagnosed : 24 May 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: PercentFuel, Visual) Contact: Tim Greig tgreig@gflenv.com To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (780)231-0521 Validity of results and interpretation are based on the sample and information as supplied. E:

Report Id: GFL554 [WCAMIS] 02637106 (Generated: 05/24/2024 10:04:57) Rev: 1

Submitted By: Brian Gagne Page 2 of 2