

Machine Id

WEAR NORMAL CONTAMINATION ABNORMAL **FLUID CONDITION ABNORMAL**

1186

16.9

2478

11.2

at

5599 onen **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2	
		Sample Number	UOIVI	Client Info	LIIIIUADII	GFL0112523	GFL0118959	GFL0102588
The oil change at the time of samplin	•	Sample Date		Client Info		22 May 2024		05 Feb 2024
recommend an early resample to mo		Machine Age	hrs	Client Info		21150	21234	0
		Oil Age	hrs	Client Info		0	0	0
		Filter Age	hrs	Client Info		0	0	0
		Oil Changed		Client Info		Changed	Changed	N/A
		Filter Changed		Client Info		Changed	Changed	N/A
		Sample Status				ABNORMAL	SEVERE	NORMAL
WEAR		Iron	ppm	ASTM D5185(m)	>120	3	7	12
		Chromium	ppm	ASTM D5185(m)		0	0	<1
All component wear rates are normal		Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
		Titanium	ppm	ASTM D5185(m)	>2	0	0	0
		Silver	ppm	ASTM D5185(m)	>2	0	0	0
		Aluminum	ppm	ASTM D5185(m)	>20	2	3	3
		Lead	ppm	ASTM D5185(m)	>40	0	0	<1
		Copper	ppm	ASTM D5185(m)	>330	<1	1	3
		Tin	ppm	ASTM D5185(m)	>15	0	0	0
		Vanadium	ppm	ASTM D5185(m)		0	0	0
		White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2	3	5	
		Potassium	ppm	ASTM D5185(m)	>20	2	2	5
There is a moderate amount of fuel p presence of fuel in the oil.	present in the oil. Tests confirm the	Fuel	%	ASTM D7593*	>3.0	4 .9	1 5.3	0.8
		Water		WC Method	>0.2	NEG	NEG	NEG
		Glycol		WC Method		NEG	NEG	NEG
		Soot %	%	ASTM D7844*	>4	0	0	0.2
		Nitration	Abs/cm	ASTM D7624*	>20	5.1	7.5	8.6
		Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	17.6	20.2
		Silt	scalar	Visual*	NONE	NONE	NONE	
		Debris	scalar	Visual*	NONE	VLITE	NONE	
		Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
		Appearance	scalar	Visual*	NORML	NORML	NORML	
		Odor	scalar	Visual*	NORML	NORML	NORML	NORML
		Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION		Sodium	ppm	ASTM D5185(m)		52	45	9
Fuel is present in the oil and is lower	ing the viscosity. The oil is no ce of contaminants.	Boron	ppm	ASTM D5185(m)		2	1	2
longer serviceable due to the present		Barium	ppm	ASTM D5185(m)		0	0	0
5 process		Molybdenum	ppm	ASTM D5185(m)		53	50	60
		Manganese	ppm	ASTM D5185(m)		0	0	0
		Magnesium	ppm	ASTM D5185(m)		854	810	979
		Calcium	ppm	ASTM D5185(m)	1050	925	890	1092
		Phosphorus	ppm	ASTM D5185(m)	995	912	858	990
		1000	10 10 100	ALTIM DE10E(m)	1100	1000	007	1100

Zinc

Sulfur

Oxidation

997

2223

14.1

8.4

1030

2310

13.6

9.8

ASTM D5185(m) 1180

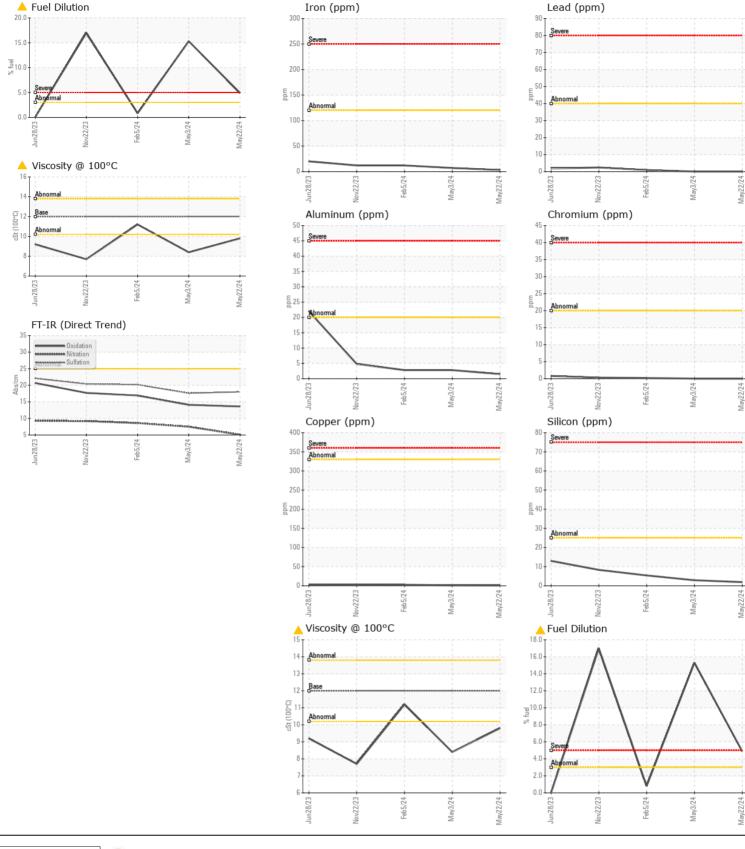
>25

ppm ASTM D5185(m) 2600

Abs/.1mm ASTM D7414*

ppm

Visc @ 100°C cSt ASTM D7279(m) 12.00



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Laboratory CALA Sample No. Received 8409 -15th Street NW : GFL0112523 : 29 May 2024 Lab Number : 02638388 Tested Edmonton, AB : 30 May 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5787550 : 30 May 2024 - Wes Davis CA T6P 0B8 Diagnosed Test Package : MOB 1 (Additional Tests: PercentFuel, Visual) Contact: Tim Greig To discuss this sample report, contact Customer Service at 1-800-268-2131. tgreig@gflenv.com T: (780)231-0521 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: Validity of results and interpretation are based on the sample and information as supplied.