

## WEAR NORMAL CONTAMINATION MARGINAL FLUID CONDITION ATTENTION

Machine Id 828007

Diesel Engine

PETRO CANADA DURON SHP 15W40 (22 GAL)

RECOMMENDATION

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

WEAR

All component wear rates are normal.

-----

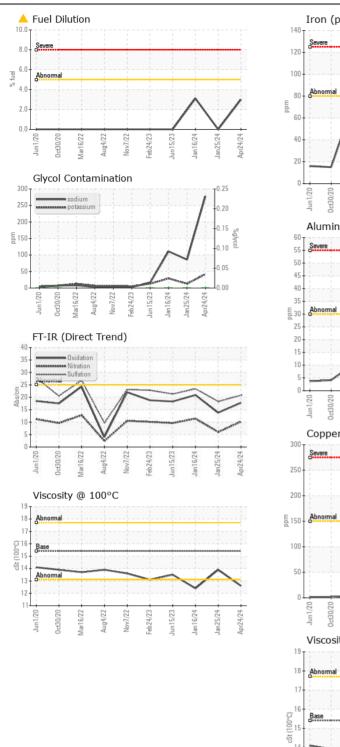
## **CONTAMINATION**

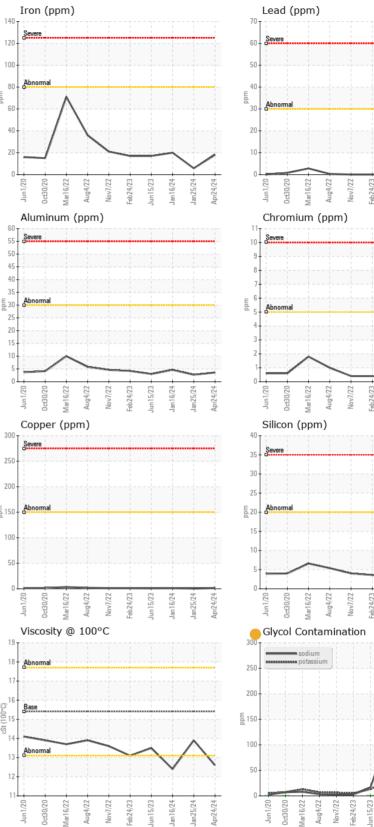
Light fuel dilution occurring. Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. No other contaminants were detected in the oil.

								_									_							
				н	L	N	r		Y	6		N	U	h				6		Ľ				
F		L	U	J	L			U	7		7		М	Ľ					.,	П	N.			

The condition of the oil is acceptable for the time in service (see recommendation).

•••••						
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0117882	GFL0107115	GFL0107146
Sample Date		Client Info		24 Apr 2024	25 Jan 2024	16 Jan 2024
Machine Age	hrs	Client Info		11604	11067	11067
Oil Age	hrs	Client Info		600	0	0
Filter Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ATTENTION	NORMAL	MARGINAL
Iron	ppm	ASTM D5185(m)	>80	18	6	20
Chromium	ppm	ASTM D5185(m)	>5	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	4	3	5
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	2	<1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>20	3	4	5
Potassium	ppm	ASTM D5185(m)	>20	42	13	29
Fuel	%	ASTM D3103(iii) ASTM D7593*	>5	42 <u>3</u>	<1.0	<u>∠</u> 3
Water	/0	WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*	>0.2	0.0	0.0	0.0
Soot %	%	ASTM D7922 ASTM D7844*	>3	0.0	0.0	0.5
	Abs/cm	ASTM D7644 ASTM D7624*		10.2	6.0	11.4
Nitration		ASTM D7624 ASTM D7415*	>20	20.8	18.3	23.4
Sulfation	Abs/.1mm		>30			23.4
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	NORMI
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>e</b> 278	86	111
Boron	ppm	ASTM D5185(m)	0	9	13	22
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	59	64
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	902	935	967
Calcium	ppm	ASTM D5185(m)	1070	966	1006	1026
Phosphorus	ppm	ASTM D5185(m)	1150	936	988	943
Zinc	ppm	ASTM D5185(m)	1270	1130	1143	1145
Sulfur	ppm	ASTM D5185(m)	2060	2368	2763	2657
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	13.8	20.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.6	13.9	12.4
	501		10.1		10.0	12.7





: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

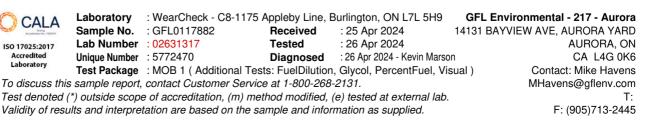
Received

Diagnosed

Tested

: 25 Apr 2024

: 26 Apr 2024



Jan 16/24 Jan25/24

Report Id: GFL217 [WCAMIS] 02631317 (Generated: 04/26/2024 10:15:30) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

b

Laboratory

Sample No.

Lab Number

Unique Number : 5772470

: GFL0117882

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Validity of results and interpretation are based on the sample and information as supplied.

: 02631317

Submitted By: Scott Ewan Page 2 of 2

lan25/24

16/24

lan 16/24 Jan 25/24 Apr24/24

0.22

0.18 0.16

0.14

0 10 0.08

0.06 0.04

0.02

0.00

Apr24/24 .

0.12 දූ

Apr24/24

pr24/24

un15/73 lan 16/24