

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL

Current

GFL0113234

History1

History2

GFL0113245 GFL0102872

Limit/Abn

UOM

Method

**Client Info** 

Test

Sample Number



#### Machine Id 925006 Component Diesel Engine

## PETRO CANADA DURON SHP 15W40 (--- GAL)

### RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

WEAR	

All component wear rates are normal.

## CONTAMINATION

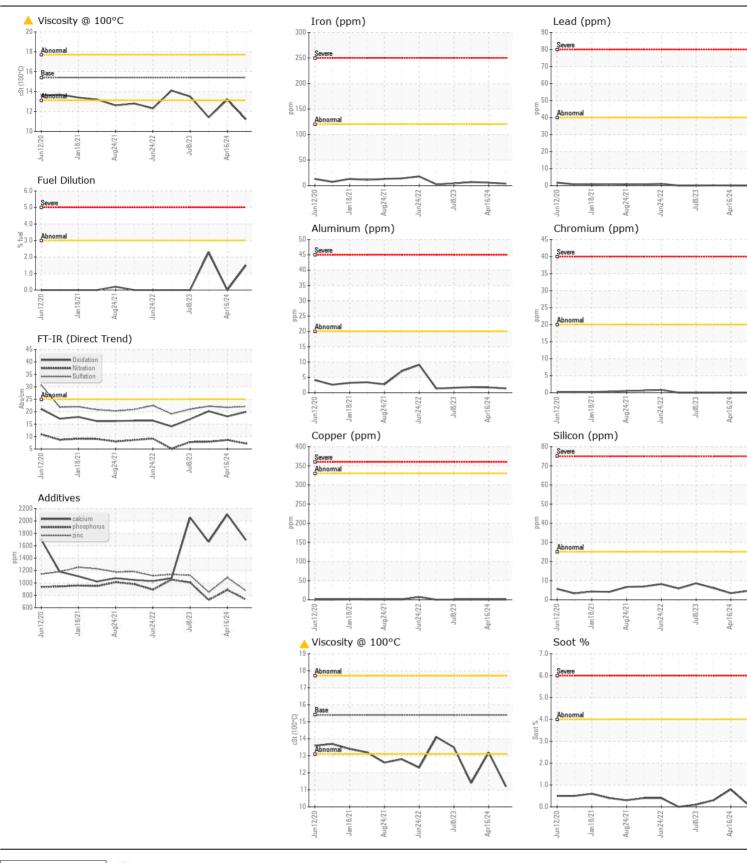
Light fuel dilution occurring. No other contaminants were detected in the oil.

Sample Date		Client Info		14 Jun 2024	16 Apr 2024	08 Jan 2024
Machine Age	hrs	Client Info		0	17016	0
Oil Age	hrs	Client Info		22946	16485	22027
Filter Age	hrs	Client Info		0	16485	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>120	4	6	7
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	ہ <1	<1	2
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
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Silicon	ppm	ASTM D5185(m)	>25	5	3	6
Potassium	ppm	ASTM D5185(m)	>20	<1	5	1
Fuel	%	ASTM D7593*	>3.0	1.5	<1.0	2.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.1	0.8	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.2	8.6	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	21.7	22.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		2	3	2
Boron	ppm	ASTM D5185(m)	0	35	96	36
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	36	3	35
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	448	51	431
<u> </u>			1070	1690	2105	1663
Calcium	ppm	ASTM D5185(m)				
Phosphorus	ppm ppm	ASTM D5185(m) ASTM D5185(m)	1150	733	887	725
		. ,			887 1086	725 851
Phosphorus	ppm	ASTM D5185(m)	1150	733		
Phosphorus Zinc	ppm ppm	ASTM D5185(m) ASTM D5185(m)	1150 1270	733 874	1086	851

### FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Submitted By: Dave Varga Page 1 of 2



GFL Environmental - 246 - Windsor Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. 2700 Deziel Dr : GFL0113234 Received : 18 Jun 2024 : 02642479 Lab Number Windsor, ON Tested : 19 Jun 2024 ISO 17025:2017 Accredited : 19 Jun 2024 - Kevin Marson CA N8W 5H8 Unique Number : 5800018 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Dave Varga To discuss this sample report, contact Customer Service at 1-800-268-2131. dvarga@gflenv.com T: (519)944-8009 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied. F: