

Machine Id

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### 4474 Component Diesel Engine

### PETRO CANADA DURON SHP 15W40 (38 LTR)

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		

RECOMMENDATION

All component wear rates are normal.

# CONTAMINATION

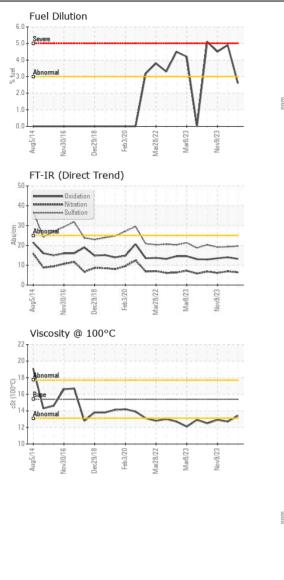
Light fuel dilution occurring. No other contaminants were detected in the oil.

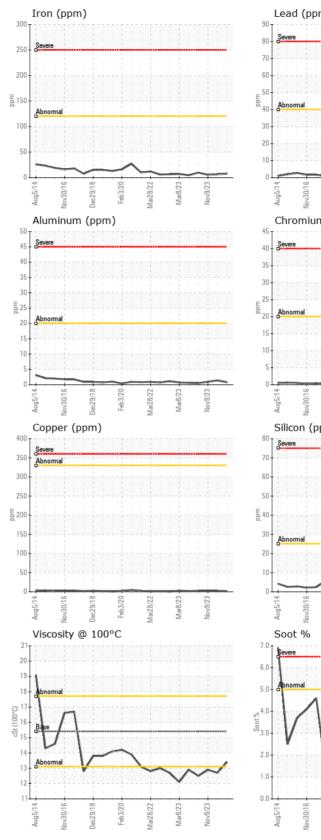
# FLUID CONDITION

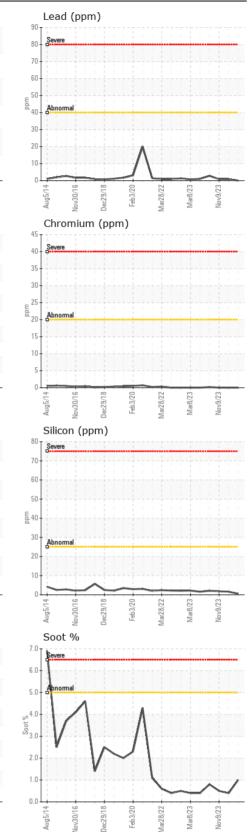
The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0117137	GFL0110214	GFL0097790
Sample Date		Client Info		07 May 2024	12 Feb 2024	09 Nov 2023
Machine Age	hrs	Client Info		33500	32646	5241
Oil Age	hrs	Client Info		1200	600	600
Filter Age	hrs	Client Info		1200	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
			100	0		 
Iron	ppm	ASTM D5185(m)	>120	8	6	5
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
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	1	<1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	<1	2	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Fuel	%	ASTM D7593*	>3.0	2.6	<b>4</b> .9	<b>4</b> .5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>5	1	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.4	6.9	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	19.3	19.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		1	<1	2
Boron	ppm	ASTM D5185(m)	0	3	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	57	56	55
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	928	905	898
Calcium	ppm	ASTM D5185(m)	1070	1053	1006	975
Phosphorus	ppm	ASTM D5185(m)	1150	951	968	937
Zinc	ppm	ASTM D5185(m)	1270	1129	1106	1105
Sulfur	ppm	ASTM D5185(m)	2060	2448	2619	2394
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	14.0	13.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.4	12.7	12.9
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Submitted By: Fred Carleton







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 209 - Hamilton CALA Sample No. : GFL0117137 Received :08 May 2024 560 Seaman Street Lab Number : 02634021 Stoney Creek, ON Tested :09 May 2024 ISO 17025:2017 Accredited : 09 May 2024 - Wes Davis CA L8E 3X7 Unique Number : 5775174 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Fred Carleton To discuss this sample report, contact Customer Service at 1-800-268-2131. fred.carleton@gflenv.com T: (289)925-6693 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (905)664-9008 Validity of results and interpretation are based on the sample and information as supplied.

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