

## WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL

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#### GFL207 Machine Id 800020

**Diesel Engine** 

### PETRO CANADA DURON SHP 15W40 (21 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

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All component wear rates are normal.

# CONTAMINATION

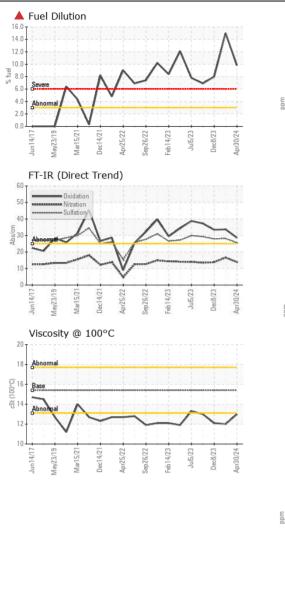
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

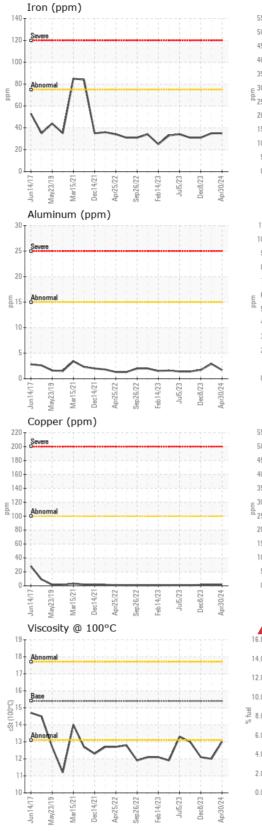
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118500	GFL0102737	GFL0094555
Sample Date		Client Info		30 Apr 2024	20 Feb 2024	08 Dec 2023
Machine Age	hrs	Client Info		18269	17676	17102
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	SEVERE	SEVERE
 Iron	ppm	ASTM D5185(m)	>75	35	35	31
Chromium	ppm	ASTM D5185(m)	>5	2	2	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	3	2
Lead	ppm	ASTM D5185(m)	>25	0	0	<1
Copper	ppm	ASTM D5185(m)	>100	1	1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
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Silicon	ppm	ASTM D5185(m)	>25	12	16	10
Potassium	ppm	ASTM D5185(m)	>20	2	2	1
Fuel	%	ASTM D7593*	>3.0	<b>9</b> .8	<b>1</b> 5	▲ 8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0.8	0.9	0.9
Nitration	Abs/cm	ASTM D7624*	>20	13.9	16.6	13.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6	28.2	27.9
 Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		36	12	8
Boron	ppm	ASTM D5185(m)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	54	46	49
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	813	730	800
Calcium	ppm	ASTM D5185(m)	1070	866	806	895
Phosphorus	ppm	ASTM D5185(m)	1150	830	767	835
Zinc	ppm	ASTM D5185(m)	1270	991	899	1002
Sulfur	ppm	ASTM D5185(m)	2060	1991	1957	2050
Oxidation	Abs/.1mm	ASTM D7414*	>25	28.6	33.7	33.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.0	<mark>▲</mark> 12.0	▲ 12.1

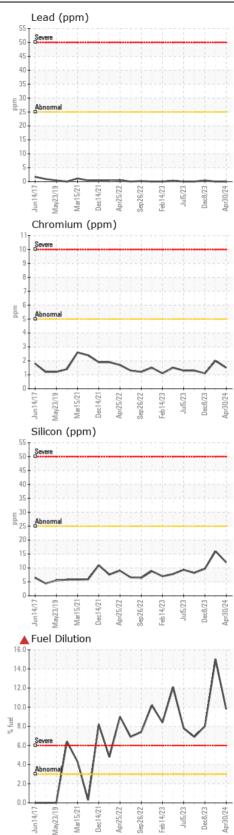
### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Submitted By: Shane Cater







: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 227 - Pickering MTCE Laboratory CALA Sample No. Received 1034 Toy Ave : GFL0118500 : 02 May 2024 þ Lab Number : 02632723 Tested : 03 May 2024 Pickering, ON ISO 17025:2017 Accredited : 03 May 2024 - Kevin Marson CA L1W 3P1 Unique Number : 5773876 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Maintenance To discuss this sample report, contact Customer Service at 1-800-268-2131. T: 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.

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