

OIL ANALYSIS REPORT









Machine Id 726001 Component **Diesel Engine**

PETRO CANADA DURON

DIAGNOSIS

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.

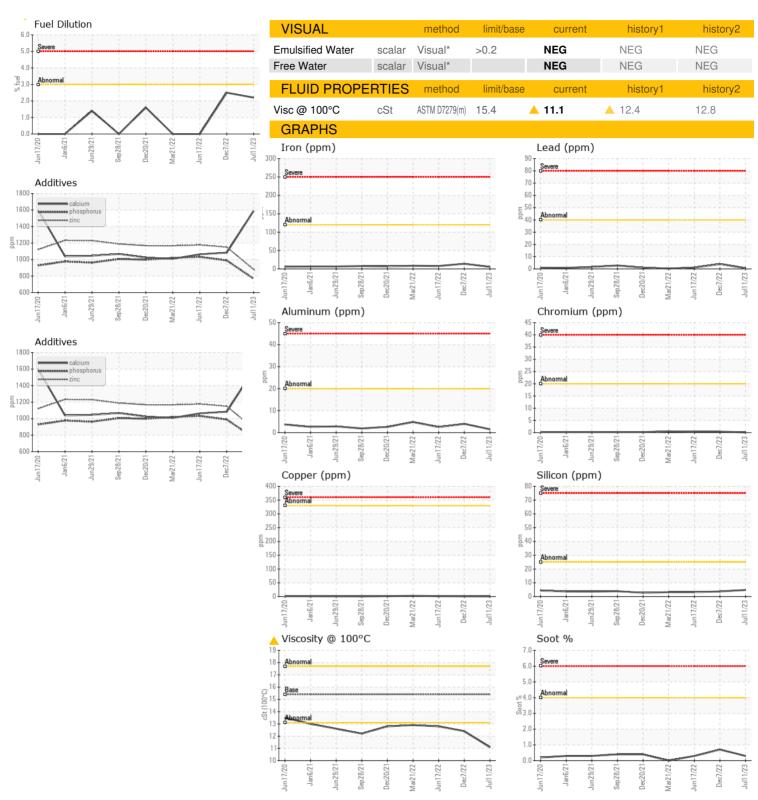
Fluid Condition

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.

N SHP 15W40 (- GAL)	Jun2020 Ja	n2021 Jun2021 Sep2021	Dec2021 Mar2022 Jun2022 Dec20	22 Jul2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0078503	GFL0065893	GFL0053582
Sample Date		Client Info		11 Jul 2023	07 Dec 2022	17 Jun 2022
Machine Age	hrs	Client Info		0	19175	18056
Oil Age	hrs	Client Info		20445	1119	601
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	6	14	8
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	2	<u>^</u> 6	1 1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	2
Lead	ppm	ASTM D5185(m)	>40	<1	4	1
Copper	ppm	ASTM D5185(m)	>330	<1	1	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	27	4	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	40	58	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	530	874	945
Calcium	ppm	ASTM D5185(m)	1070	1588	1083	1063
Phosphorus	ppm	ASTM D5185(m)	1150	767	989	1032
Zinc	ppm	ASTM D5185(m)	1270	880	1150	1177
Sulfur	ppm	ASTM D5185(m)	2060	1982	2147	2369
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	4	3
Sodium	ppm	ASTM D5185(m)		3	6	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Fuel	%	ASTM D7593*	>3.0	2.2	<u>^</u> 2.5	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.3	0.7	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.3	9.8	8.4
Miliation						
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.9	24.0	21.9
	Abs/.1mm		>30 limit/base	22.9 current	24.0 history1	21.9 history2



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 5606702

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 246 - Windsor : GFL0078503 Received : 02569656

: 13 Jul 2023 Diagnosed : 14 Jul 2023

Diagnostician : Kevin Marson **Test Package**: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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

2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009