

Machine Id
9973
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0119007	GFL0102673	GFL0102644
Sample Date		Client Info		27 May 2024	20 Mar 2024	07 Jan 2024
Machine Age	hrs	Client Info		24767	29231	28678
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				MARGINAL	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	2	40	26
Chromium	ppm	ASTM D5185(m)	>4	0	2	1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	6	5
Lead	ppm	ASTM D5185(m)	>45	0	1	<1
Copper	ppm	ASTM D5185(m)	>85	<1	1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

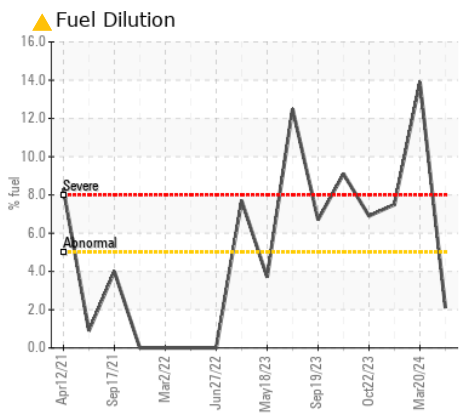
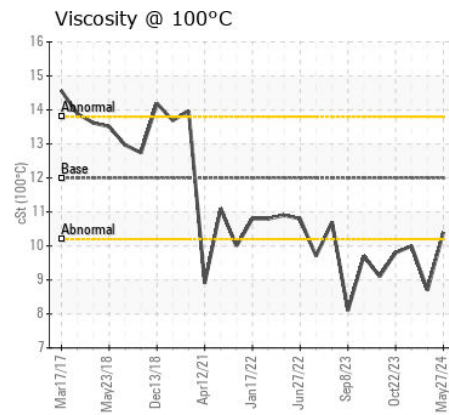
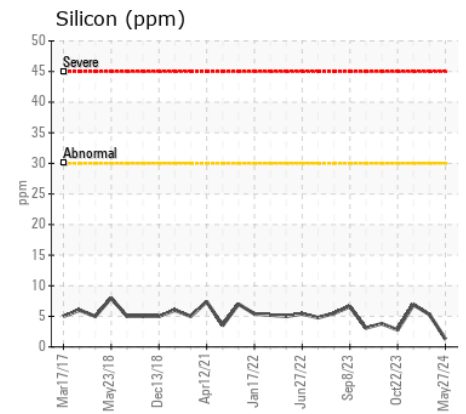
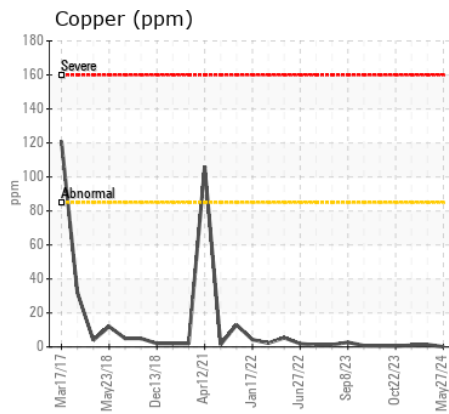
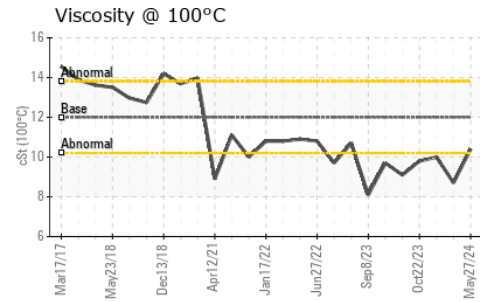
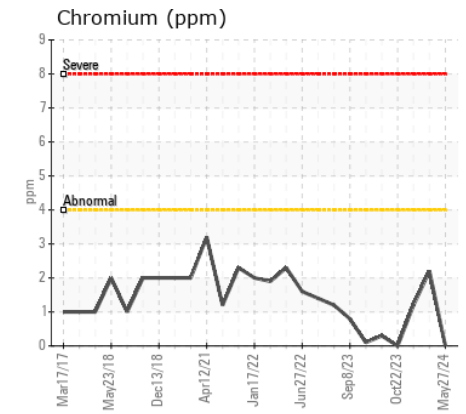
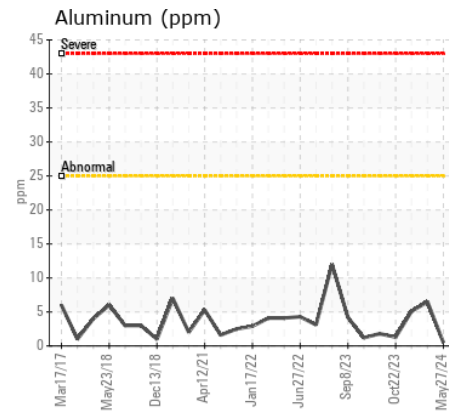
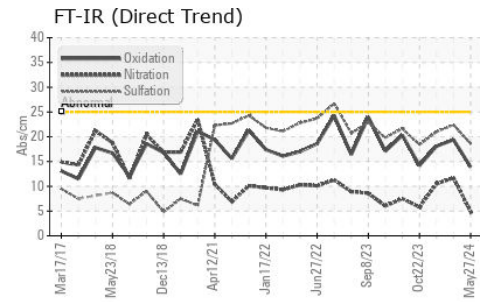
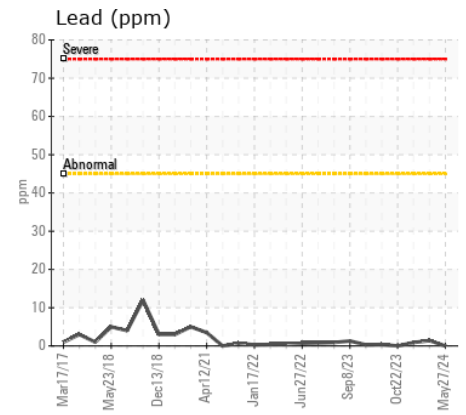
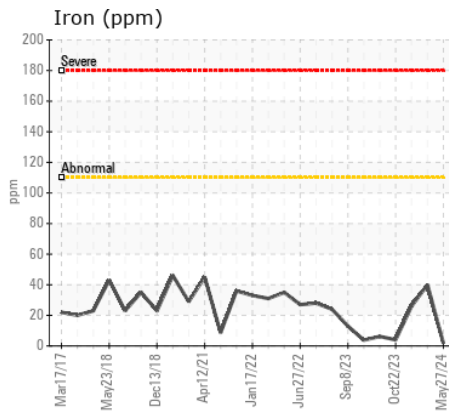
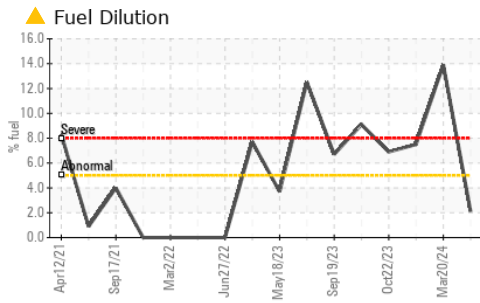
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>30	1	5	7
Potassium	ppm	ASTM D5185(m)	>20	0	9	6
Fuel	%	ASTM D7593*	>5	▲ 2.1	▲ 13.9	▲ 7.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	0	1.2	0.6
Nitration	Abs/cm	ASTM D7624*	>20	4.9	11.7	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	22.4	21.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		6	46	36
Boron	ppm	ASTM D5185(m)	2	2	2	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	52	50	56
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	865	788	853
Calcium	ppm	ASTM D5185(m)	1050	935	858	965
Phosphorus	ppm	ASTM D5185(m)	995	919	798	910
Zinc	ppm	ASTM D5185(m)	1180	1042	960	1061
Sulfur	ppm	ASTM D5185(m)	2600	2345	1999	2437
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	19.4	18.1
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.4	▲ 8.7	▲ 10.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0119007
Lab Number : 02638393
Unique Number : 5787555
Test Package : MOB 1 (Additional Tests: PercentFuel)
Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Wes Davis

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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.