

Machine Id
4786
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118962	GFL0101733	GFL0085944
Sample Date		Client Info		05 May 2024	30 Nov 2023	20 Jun 2023
Machine Age	hrs	Client Info		14587	14283	13144
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	22	30	19
Chromium	ppm	ASTM D5185(m)	>20	1	2	4
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	4
Lead	ppm	ASTM D5185(m)	>40	<1	3	3
Copper	ppm	ASTM D5185(m)	>330	16	68	16
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

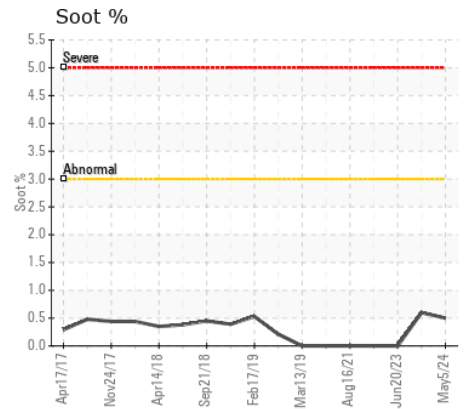
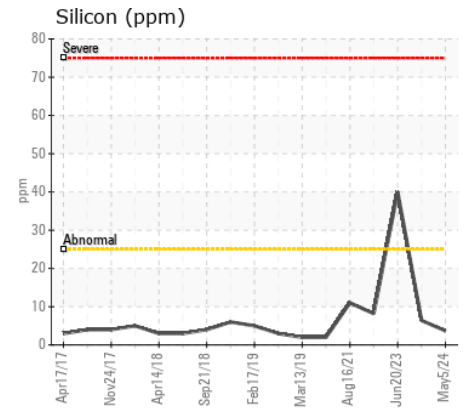
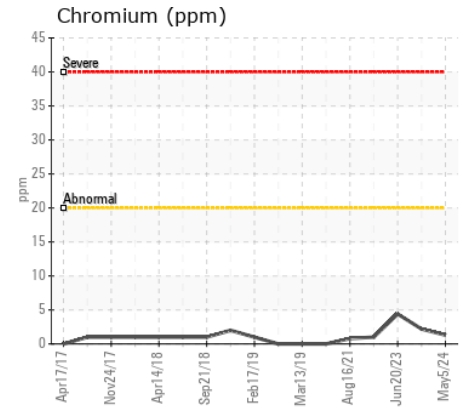
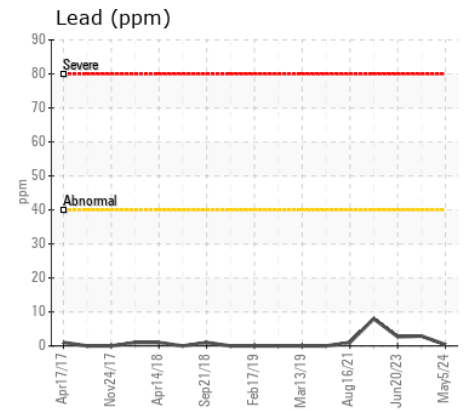
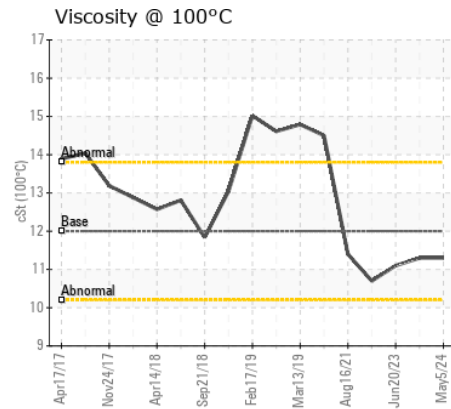
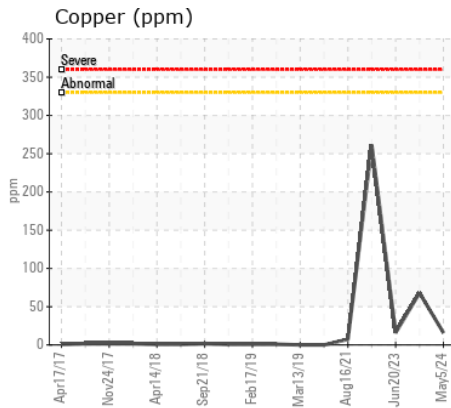
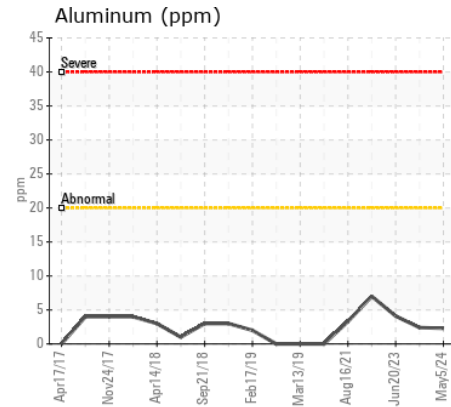
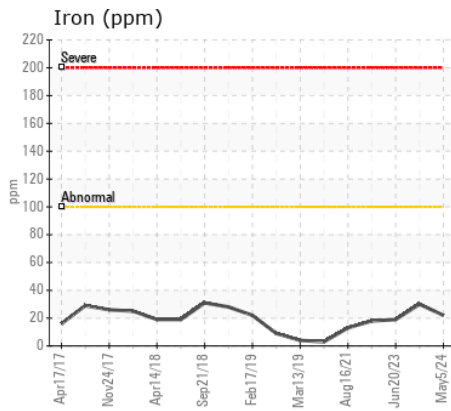
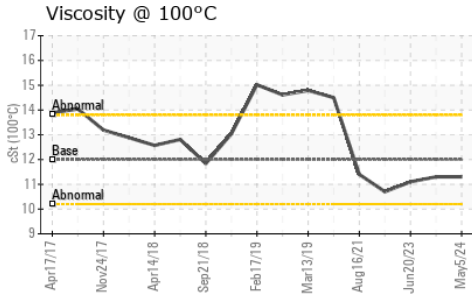
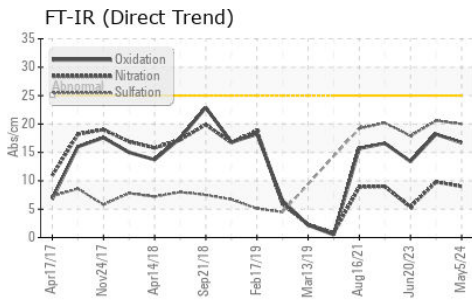
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	6	▲ 40
Potassium	ppm	ASTM D5185(m)	>20	1	2	5
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.5	0.6	0
Nitration	Abs/cm	ASTM D7624*	>20	9.0	9.8	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	20.6	17.9
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	8	10
Boron	ppm	ASTM D5185(m)	2	5	3	7
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	58	56	56
Manganese	ppm	ASTM D5185(m)	0	<1	<1	6
Magnesium	ppm	ASTM D5185(m)	950	938	906	877
Calcium	ppm	ASTM D5185(m)	1050	1041	991	1026
Phosphorus	ppm	ASTM D5185(m)	995	955	905	987
Zinc	ppm	ASTM D5185(m)	1180	1143	1111	1091
Sulfur	ppm	ASTM D5185(m)	2600	2369	2065	2556
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.7	18.2	13.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.3	11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0118962
Lab Number : 02634001
Unique Number : 5775154
Test Package : MOB 1

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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.