

Machine Id
8428
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0123456	GFL0110717	GFL0097439
Sample Date		Client Info		20 Jun 2024	26 Mar 2024	10 Jan 2024
Machine Age	hrs	Client Info		3237	3237	3237
Oil Age	hrs	Client Info		3237	3237	3237
Filter Age	hrs	Client Info		3237	3237	3237
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	23	4	21
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	2
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

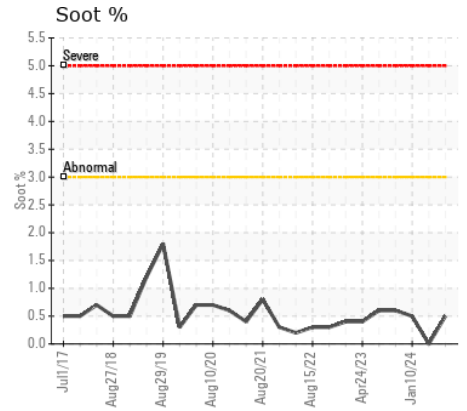
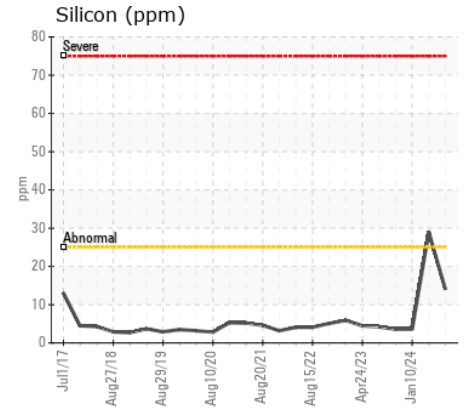
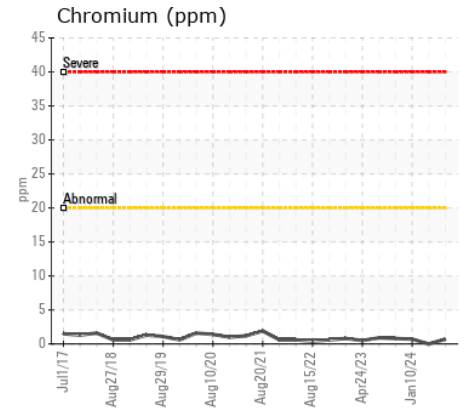
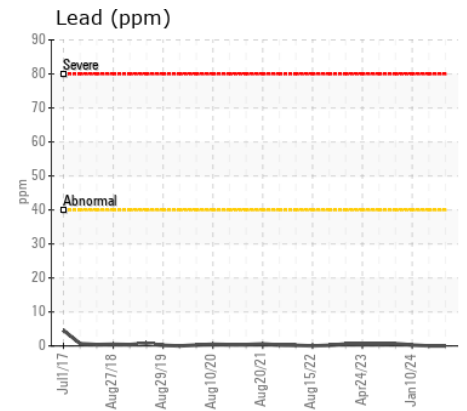
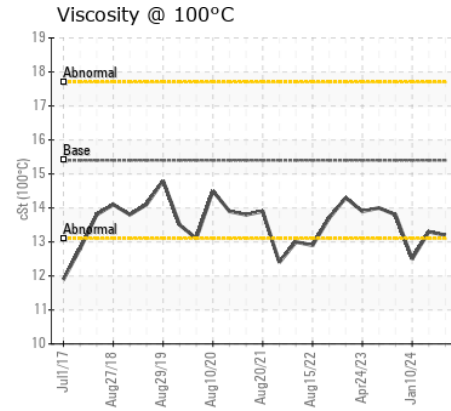
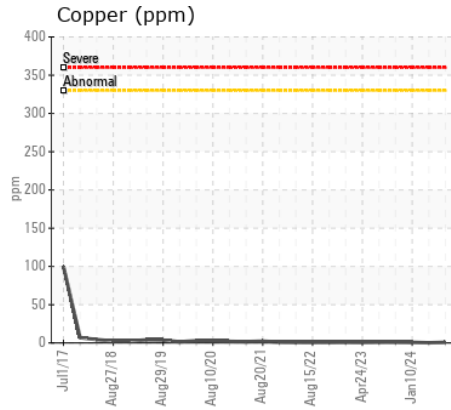
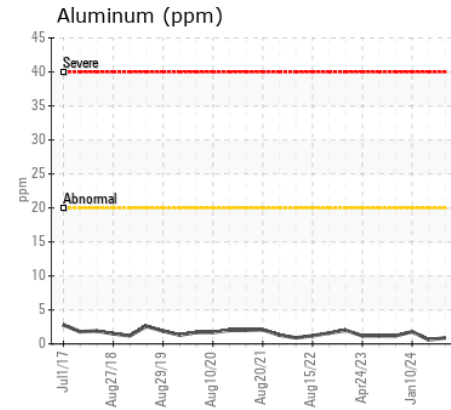
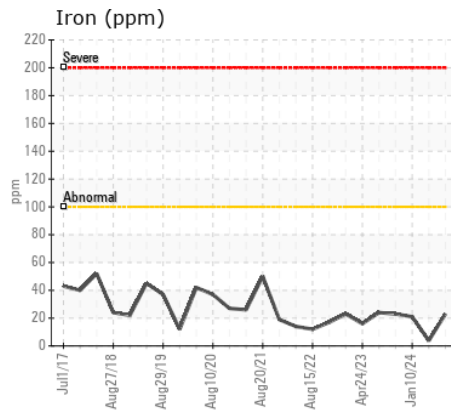
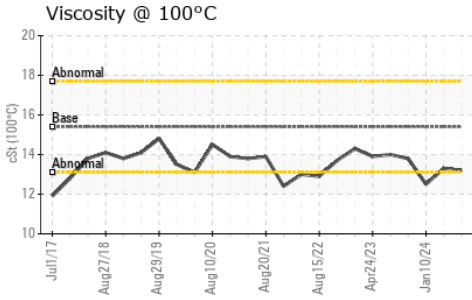
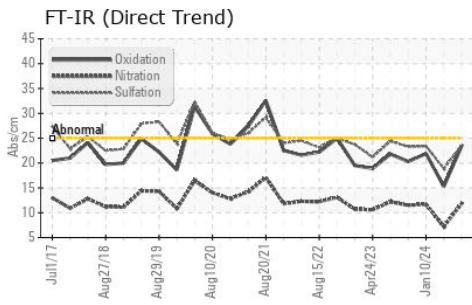
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	14	▲ 29	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>5	<1.0	▲ 3.7	▲ 5.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	0	0.5
Nitration	Abs/cm	ASTM D7624*	>20	11.8	7.2	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4	18.9	23.4
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)		2	<1	1
Boron	ppm	ASTM D5185(m)	0	2	3	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	54	55	55
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	864	906	866
Calcium	ppm	ASTM D5185(m)	1070	967	971	965
Phosphorus	ppm	ASTM D5185(m)	1150	895	942	910
Zinc	ppm	ASTM D5185(m)	1270	1096	1109	1070
Sulfur	ppm	ASTM D5185(m)	2060	2229	2437	2285
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.4	15.3	21.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.2	13.3	▲ 12.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0123456
Lab Number : 02643341
Unique Number : 5800880
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.