

Area
GFL207
Machine Id
800029
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (20 GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0028560	GFL0110712	GFL0089025
Sample Date		Client Info		05 Mar 2024	16 Jan 2024	22 Sep 2023
Machine Age	hrs	Client Info		15713	15640	15133
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	9	28	31
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<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	3
Lead	ppm	ASTM D5185(m)	>25	0	<1	<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

CONTAMINATION

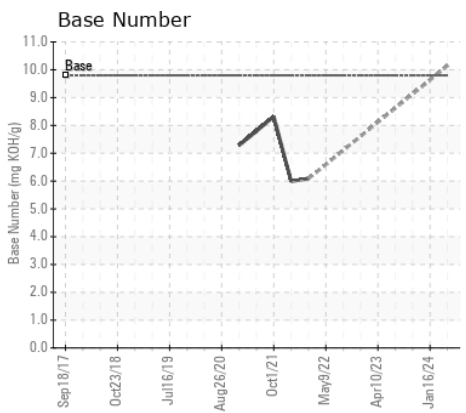
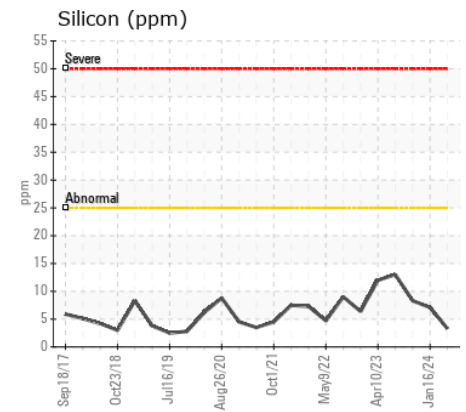
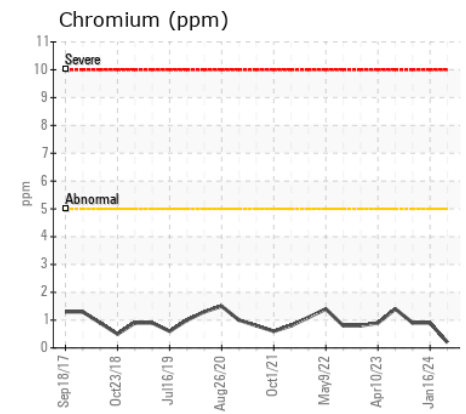
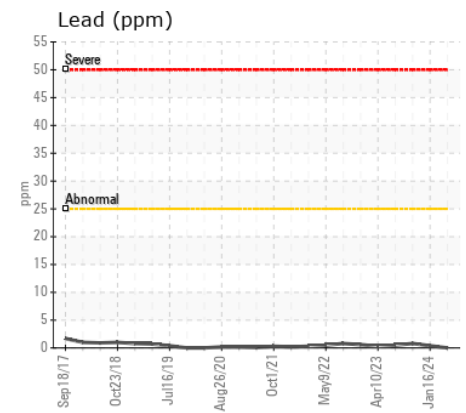
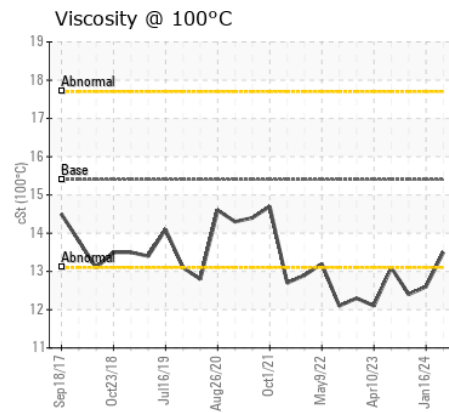
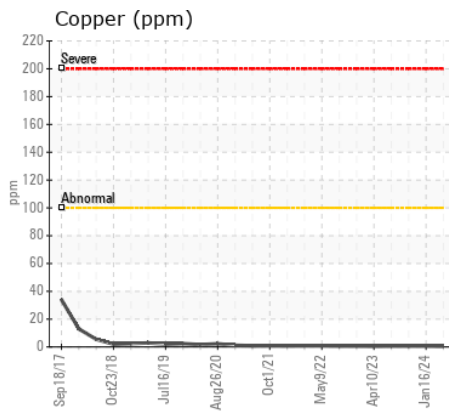
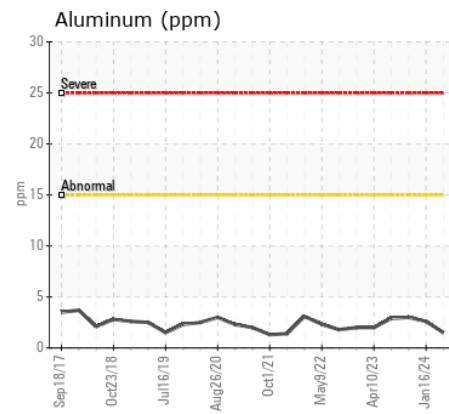
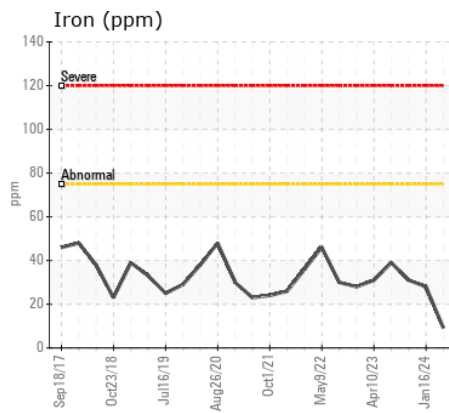
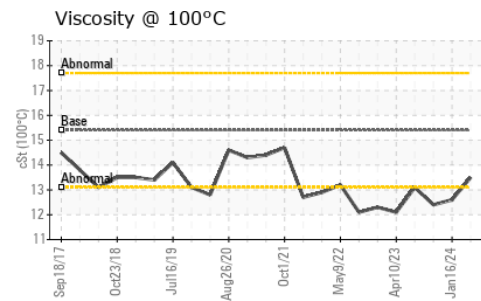
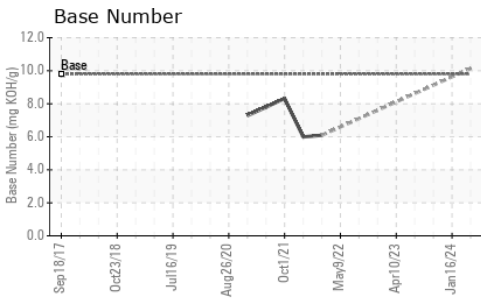
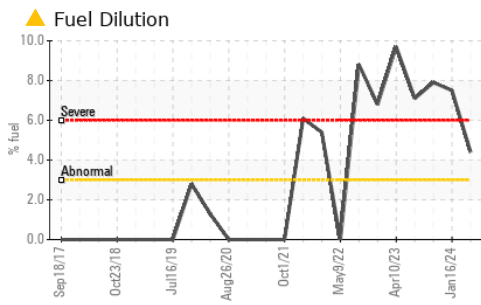
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	7	8
Potassium	ppm	ASTM D5185(m)	>20	2	4	6
Fuel	%	ASTM D7593*	>3.0	▲ 4.4	▲ 7.5	▲ 7.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>6	0.1	0.6	0.7
Nitration	Abs/cm	ASTM D7624*	>20	8.1	13.8	13.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	26.6	27.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		6	14	12
Boron	ppm	ASTM D5185(m)	0	4	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	55	52	55
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	896	825	860
Calcium	ppm	ASTM D5185(m)	1070	989	945	946
Phosphorus	ppm	ASTM D5185(m)	1150	959	849	857
Zinc	ppm	ASTM D5185(m)	1270	1104	1017	1056
Sulfur	ppm	ASTM D5185(m)	2060	2592	2287	2173
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	29.3	31.5
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	10.14	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	12.6	▲ 12.4



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0028560
Lab Number : 02620432
Unique Number : 5737542
Test Package : MOB 2 (Additional Tests: PercentFuel)

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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.*