



Machine Id
731022
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100721	GFL0079570	GFL0041650
Sample Date		Client Info		23 Feb 2024	06 Sep 2023	01 Mar 2023
Machine Age	kms	Client Info		131339	113666	92800
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	13	15	22
Chromium	ppm	ASTM D5185(m)	>4	<1	1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	3	4	<1
Copper	ppm	ASTM D5185(m)	>35	1	1	2
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

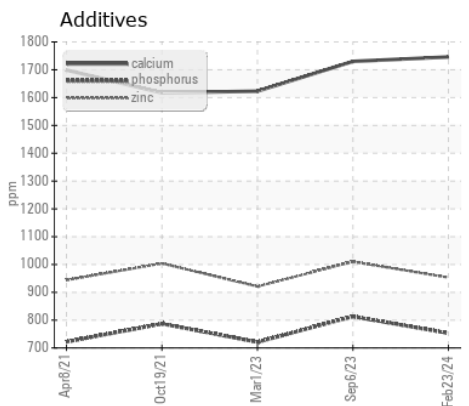
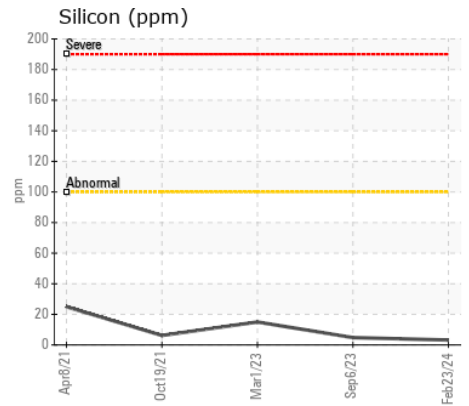
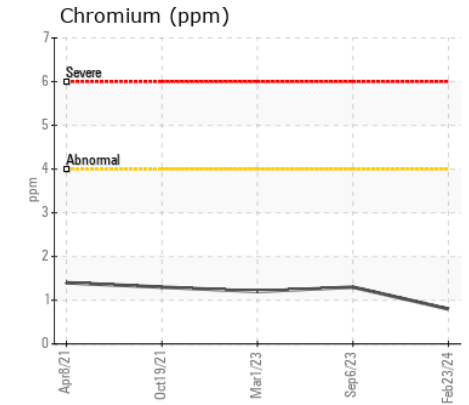
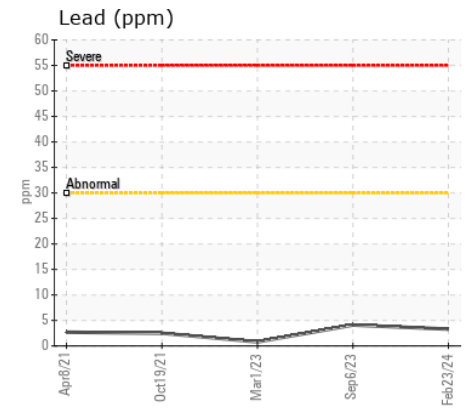
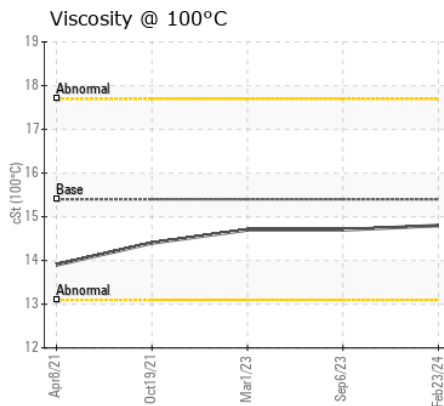
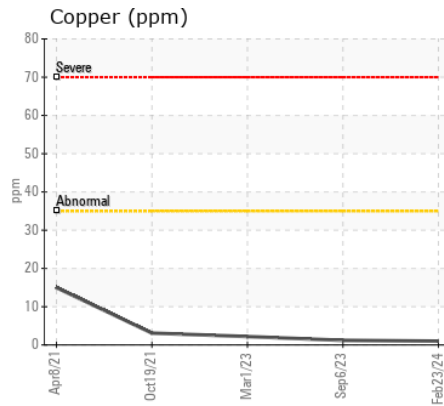
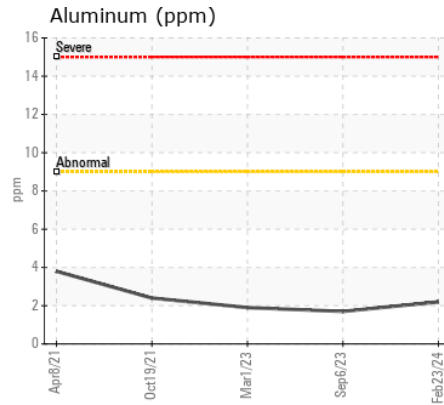
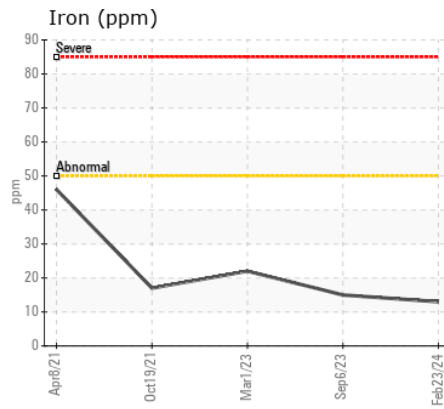
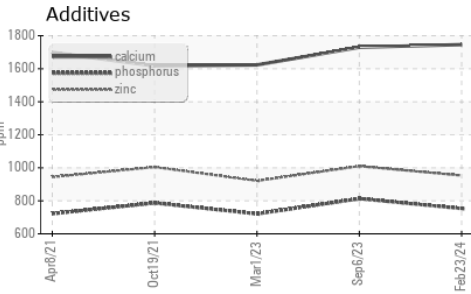
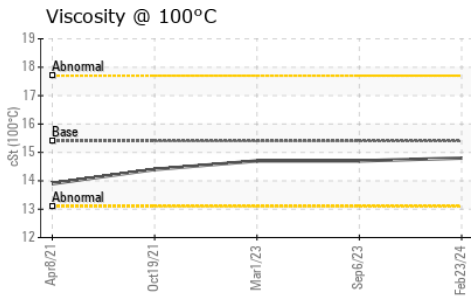
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	3	5	15
Potassium	ppm	ASTM D5185(m)	>20	2	5	59
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.5	12.1	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.4	26.2	22.1
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	4	8
Boron	ppm	ASTM D5185(m)	0	7	7	7
Barium	ppm	ASTM D5185(m)	0	0	<1	3
Molybdenum	ppm	ASTM D5185(m)	60	54	57	56
Manganese	ppm	ASTM D5185(m)	0	0	<1	2
Magnesium	ppm	ASTM D5185(m)	1010	559	628	546
Calcium	ppm	ASTM D5185(m)	1070	1746	1730	1623
Phosphorus	ppm	ASTM D5185(m)	1150	753	813	721
Zinc	ppm	ASTM D5185(m)	1270	953	1010	921
Sulfur	ppm	ASTM D5185(m)	2060	2182	2124	2089
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.4	21.9	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.8	14.7	14.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100721
Lab Number : 02617937
Unique Number : 5735047
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.