



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
511005
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		GFL0108195	GFL0090896	GFL0079638
Sample Date		Client Info		26 Feb 2024	18 Oct 2023	05 Jun 2023
Machine Age	kms	Client Info		501903	466957	411771
Oil Age	kms	Client Info		34946	0	0
Filter Age	kms	Client Info		34946	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	14	27	23
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	1	2	2
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	4	5	4
Lead	ppm	ASTM D5185(m)	>40	1	2	2
Copper	ppm	ASTM D5185(m)	>330	5	8	11
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

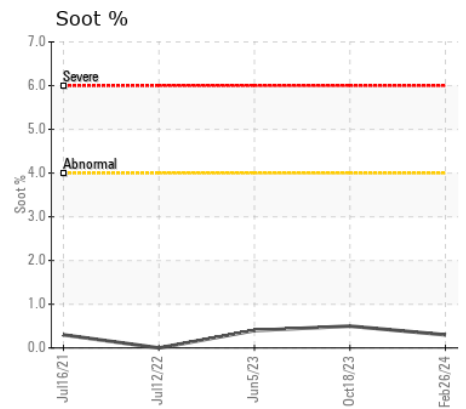
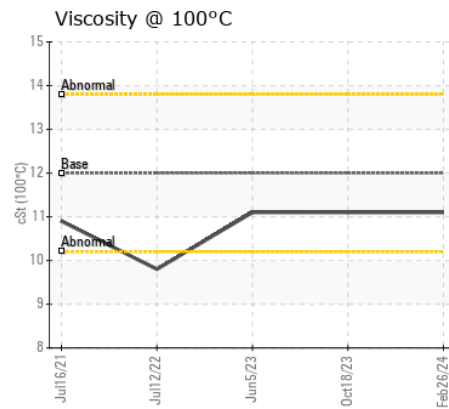
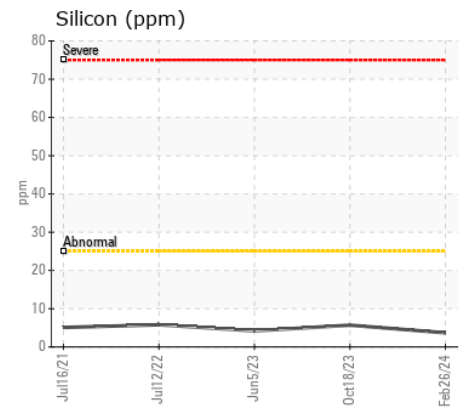
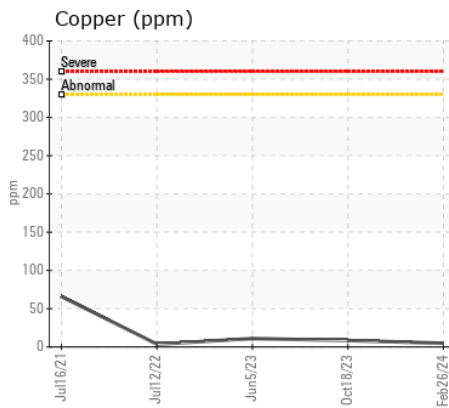
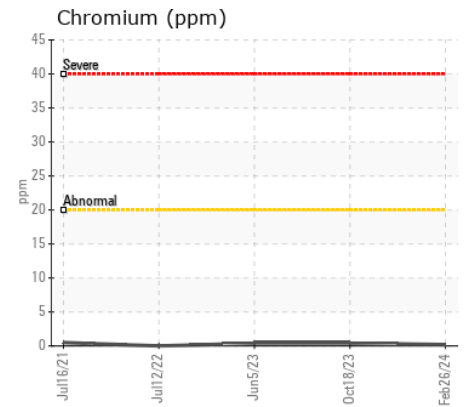
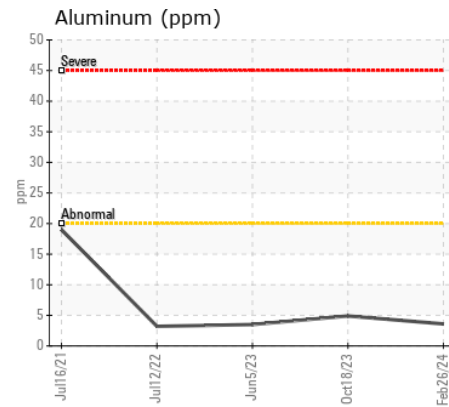
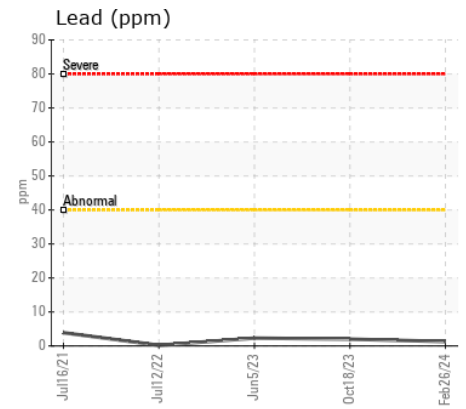
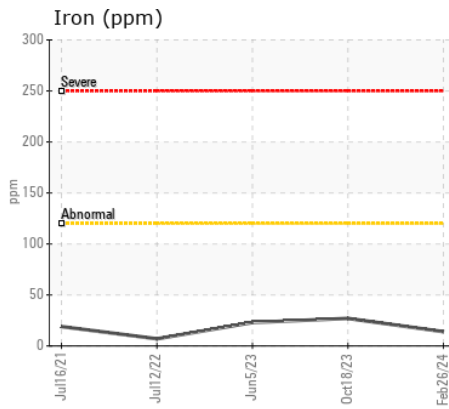
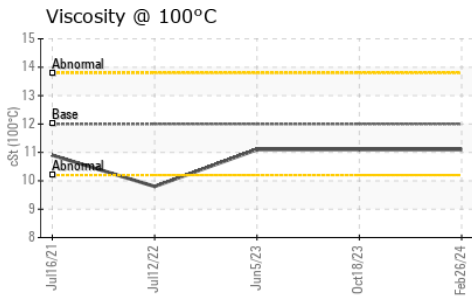
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	6	4
Potassium	ppm	ASTM D5185(m)	>20	3	7	4
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.3	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	8.9	10.1	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.6	22.2	21.8
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)		1	2	2
Boron	ppm	ASTM D5185(m)	2	2	4	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	61	65	62
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	975	964	968
Calcium	ppm	ASTM D5185(m)	1050	1104	1151	1173
Phosphorus	ppm	ASTM D5185(m)	995	1010	919	997
Zinc	ppm	ASTM D5185(m)	1180	1192	1210	1200
Sulfur	ppm	ASTM D5185(m)	2600	2589	2181	2222
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.9	18.1	18.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	11.1	11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0108195 **Received** : 29 Feb 2024
Lab Number : 02618866 **Tested** : 29 Feb 2024
Unique Number : 5735976 **Diagnosed** : 29 Feb 2024 - Wes Davis
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.