



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
511006
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		GFL0115575	GFL0098563	GFL0084216
Sample Date		Client Info		13 May 2024	27 Oct 2023	28 Jun 2023
Machine Age	kms	Client Info		489402	449116	398802
Oil Age	kms	Client Info		40286	0	0
Filter Age	kms	Client Info		40286	0	0
Oil Changed		Client Info		Not Chngd	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	59	45	59
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	2	<1	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	5	5	5
Lead	ppm	ASTM D5185(m)	>40	1	3	3
Copper	ppm	ASTM D5185(m)	>330	16	10	13
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

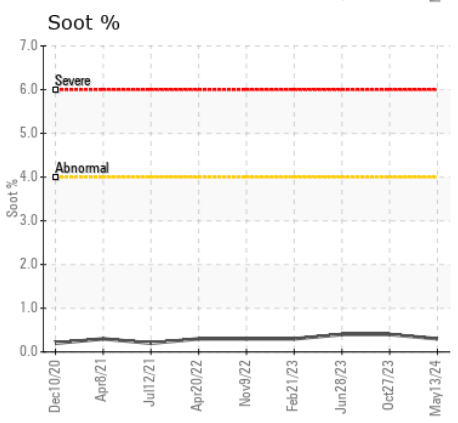
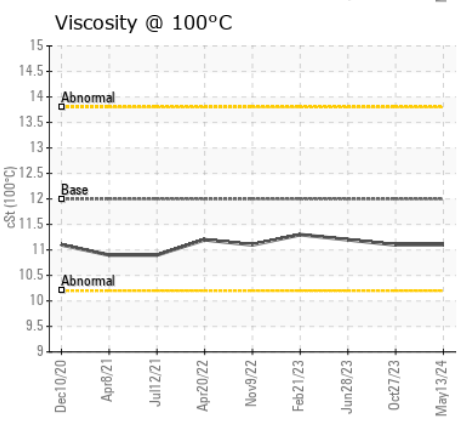
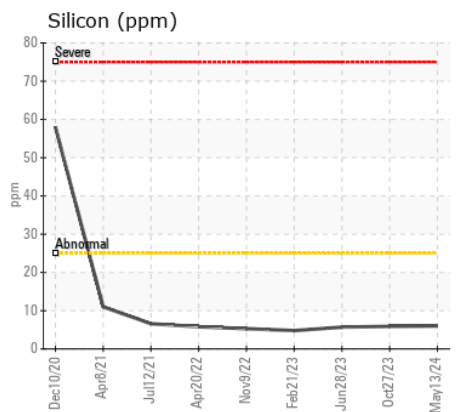
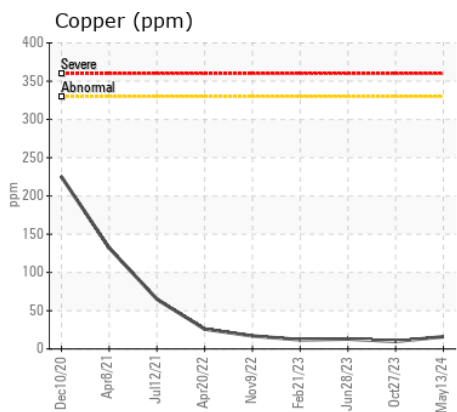
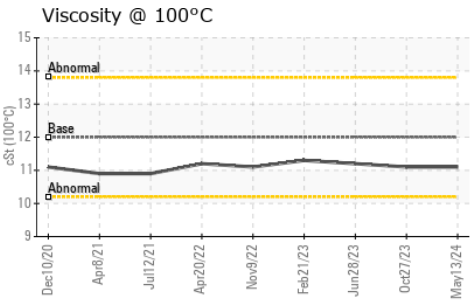
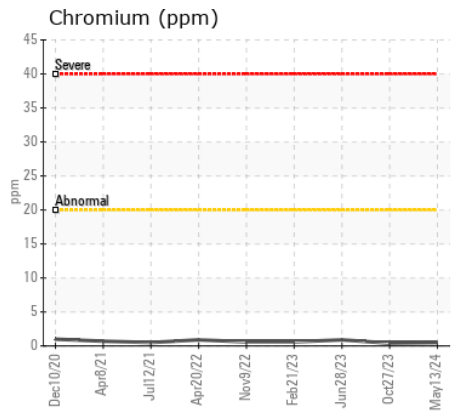
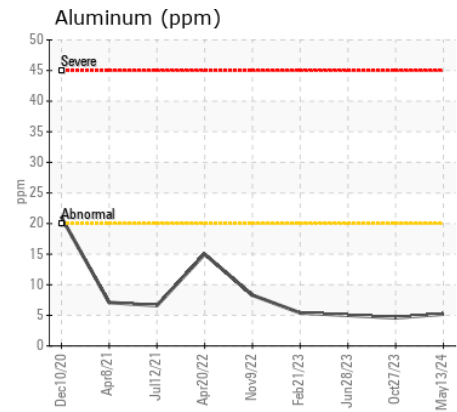
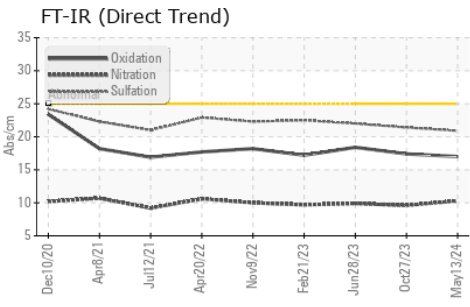
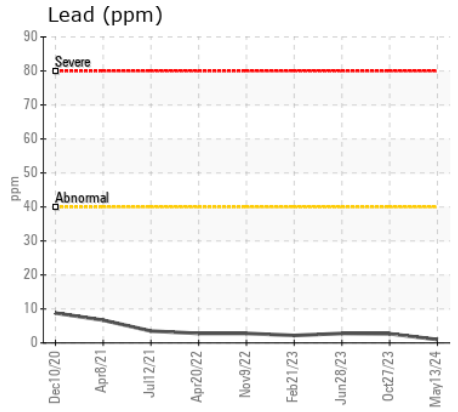
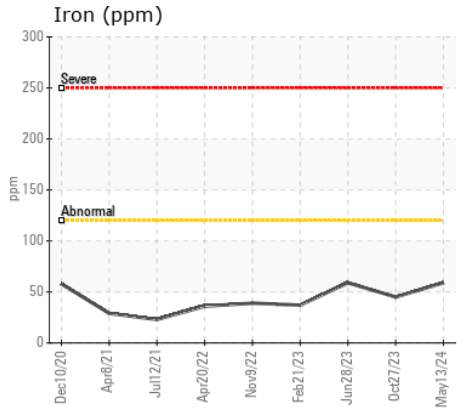
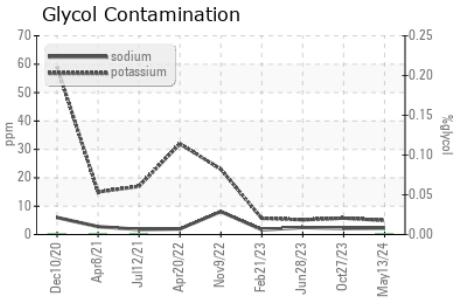
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	6	6
Potassium	ppm	ASTM D5185(m)	>20	5	6	5
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.3	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	10.3	9.6	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9	21.4	22.0
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	2	2
Boron	ppm	ASTM D5185(m)	2	2	3	2
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	60	63	61
Manganese	ppm	ASTM D5185(m)	0	1	<1	1
Magnesium	ppm	ASTM D5185(m)	950	962	959	993
Calcium	ppm	ASTM D5185(m)	1050	1107	1134	1122
Phosphorus	ppm	ASTM D5185(m)	995	936	936	992
Zinc	ppm	ASTM D5185(m)	1180	1172	1180	1206
Sulfur	ppm	ASTM D5185(m)	2600	2250	2174	2138
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.0	17.4	18.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	11.1	11.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0115575 **Received** : 15 May 2024
Lab Number : 02635533 **Tested** : 15 May 2024
Unique Number : 5776686 **Diagnosed** : 15 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

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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.