



Machine Id
801068
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112513	GFL0112562	GFL0101690
Sample Date		Client Info		04 Jun 2024	07 May 2024	29 Dec 2023
Machine Age	hrs	Client Info		339686	0	13456
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	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	18	42	27
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	4	3
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	<1	1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

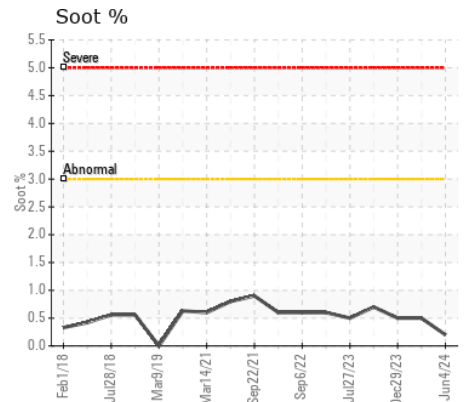
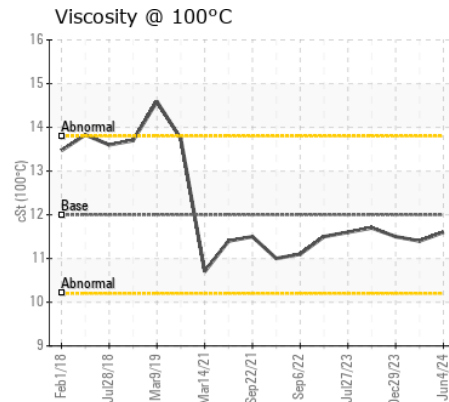
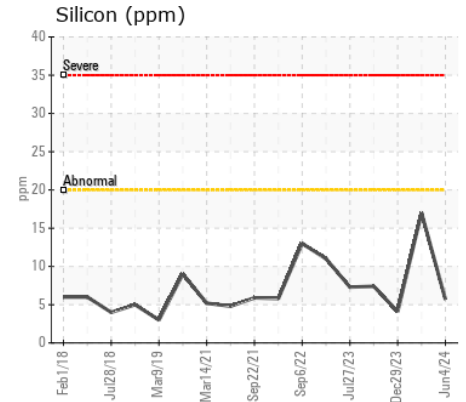
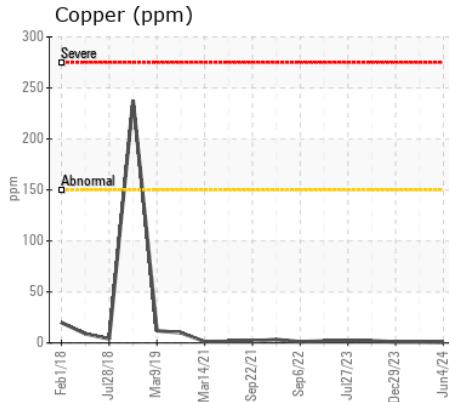
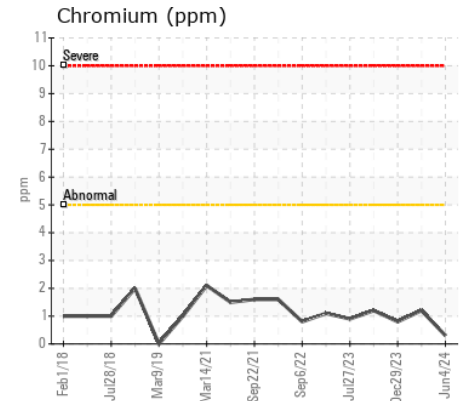
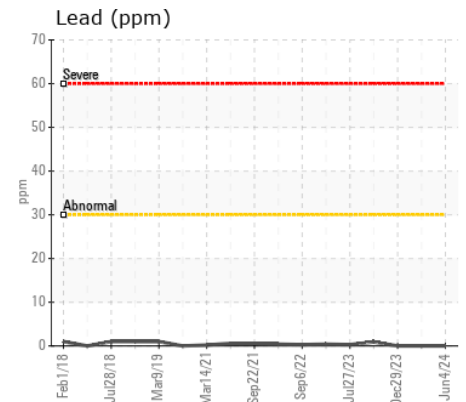
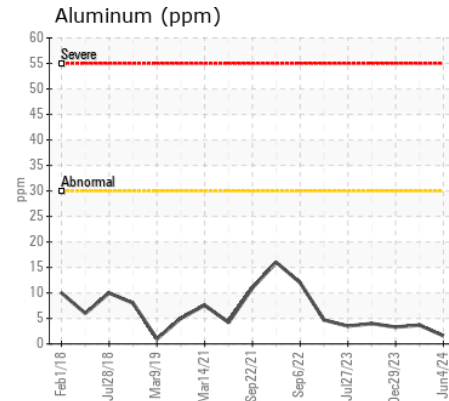
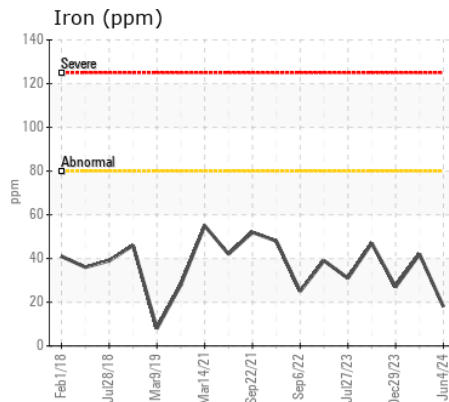
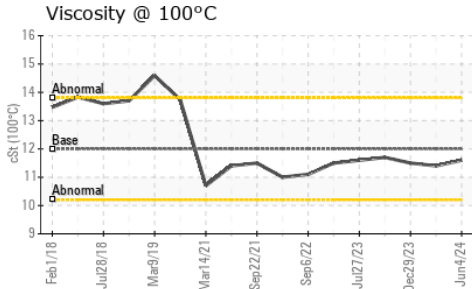
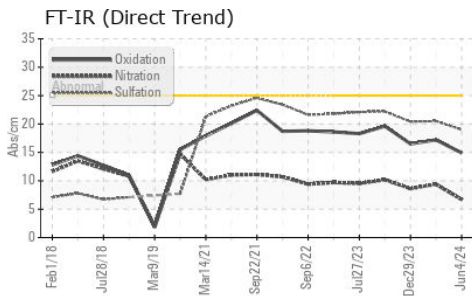
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	17	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	8
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	6.7	9.4	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.0	20.5	20.4
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)		5	6	6
Boron	ppm	ASTM D5185(m)	2	3	4	1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	59	62	60
Manganese	ppm	ASTM D5185(m)	0	0	<1	0
Magnesium	ppm	ASTM D5185(m)	950	956	1002	988
Calcium	ppm	ASTM D5185(m)	1050	1053	1096	1101
Phosphorus	ppm	ASTM D5185(m)	995	1028	1004	1014
Zinc	ppm	ASTM D5185(m)	1180	1164	1221	1229
Sulfur	ppm	ASTM D5185(m)	2600	2512	2476	2660
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.9	17.2	16.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.6	11.4	11.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112513
Lab Number : 02639774
Unique Number : 5788936
Test Package : MOB 1
Received : 05 Jun 2024
Tested : 05 Jun 2024
Diagnosed : 05 Jun 2024 - Wes Davis

GFL Environmental - 554 - Edmonton SW
 8409 - 15th Street NW
 Edmonton, AB
 CA T6P 0B8
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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.