



Machine Id
501138
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		GFL0112537	GFL0102643	GFL0093887
Sample Date		Client Info		01 Apr 2024	07 Jan 2024	06 Oct 2023
Machine Age	hrs	Client Info		14532	14002	13400
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	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)	>120	43	24	10
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	2	1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	6	2	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	15	6	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

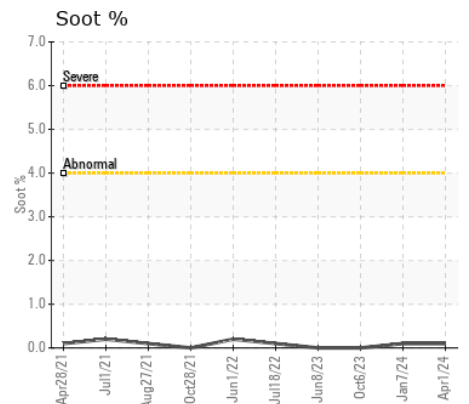
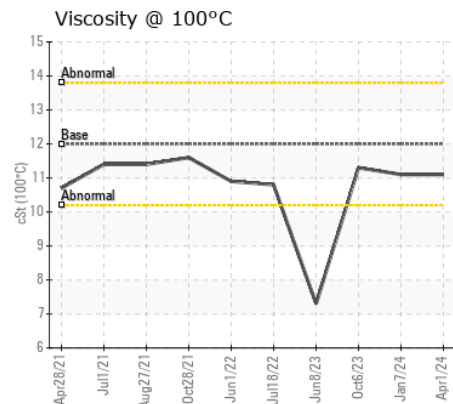
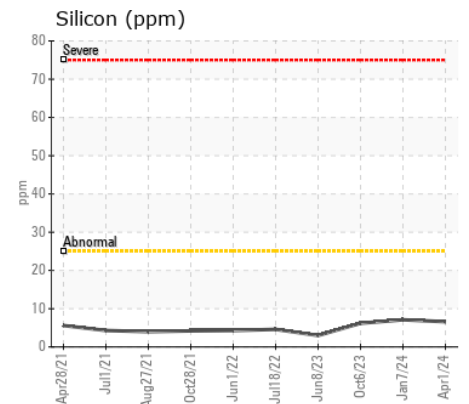
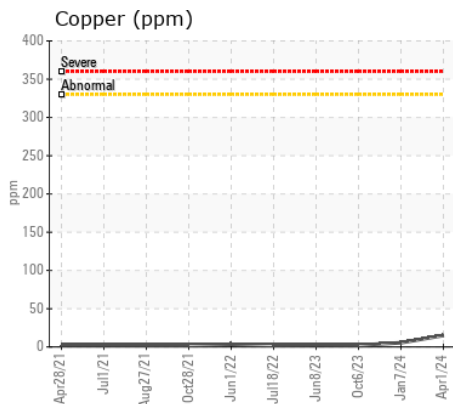
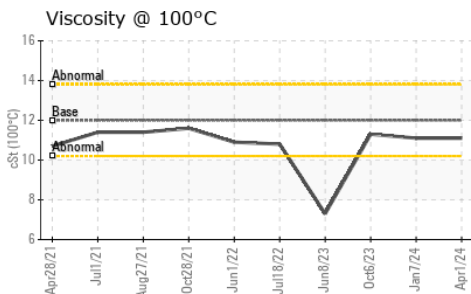
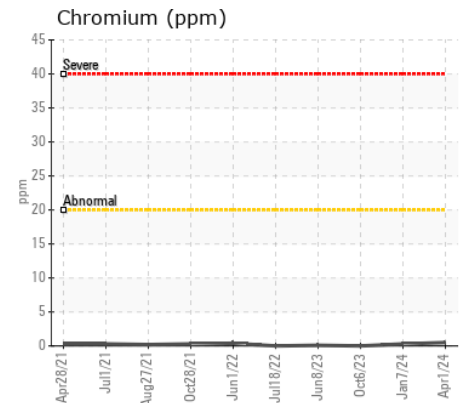
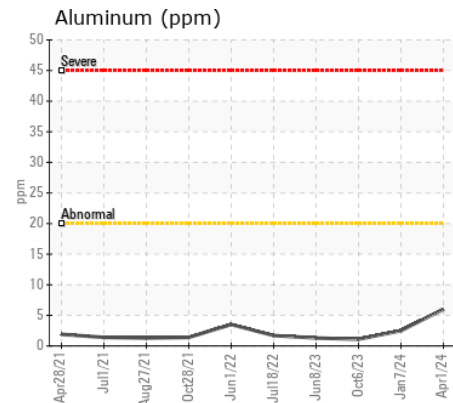
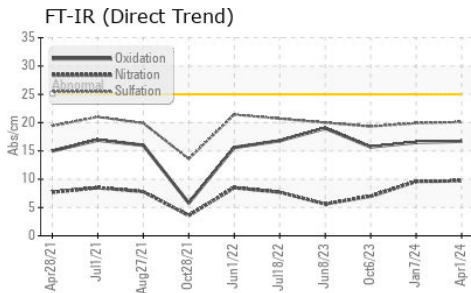
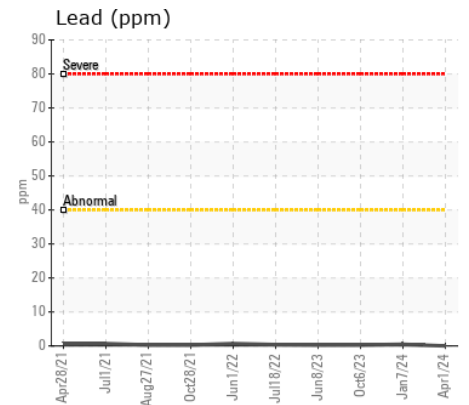
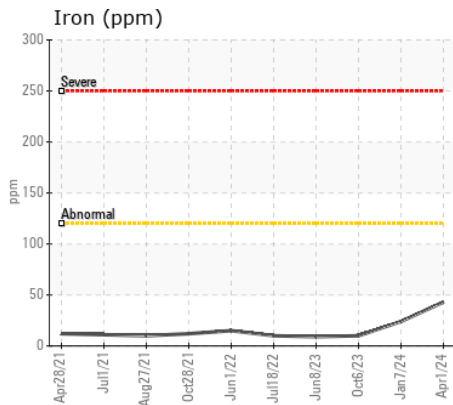
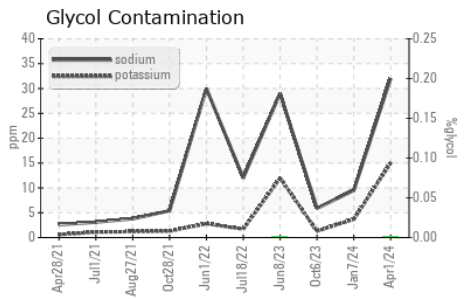
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	7	6
Potassium	ppm	ASTM D5185(m)	>20	15	4	1
Fuel		WC Method	>3.0	<1.0	<1.0	0.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.1	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	9.7	9.6	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	19.9	19.3
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)		32	10	6
Boron	ppm	ASTM D5185(m)	2	2	2	2
Barium	ppm	ASTM D5185(m)	0	<1	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	61	59	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	950	980	968	971
Calcium	ppm	ASTM D5185(m)	1050	1062	1065	1053
Phosphorus	ppm	ASTM D5185(m)	995	994	994	984
Zinc	ppm	ASTM D5185(m)	1180	1195	1180	1182
Sulfur	ppm	ASTM D5185(m)	2600	2455	2595	2501
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.7	16.5	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	11.1	11.3



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112537
Lab Number : 02627575
Unique Number : 5760707
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 554 - Edmonton SW
 8409 - 15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
 tgreig@gflenv.com
 T: (780)231-0521
 F:

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.