



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
413154
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		GFL0118977	GFL0112567	GFL0102660
Sample Date		Client Info		05 Jun 2024	06 Apr 2024	24 Feb 2024
Machine Age	hrs	Client Info		2426	1959	1655
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	12	10	21
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>5	1	1	3
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	1	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	4
Copper	ppm	ASTM D5185(m)	>330	9	32	172
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

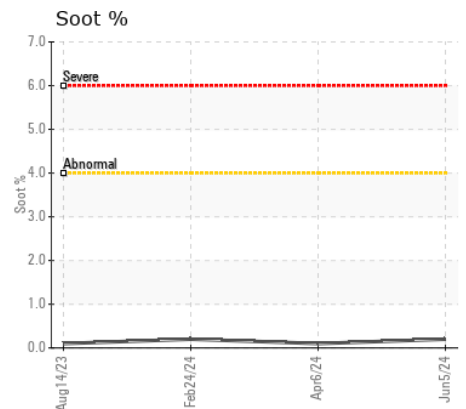
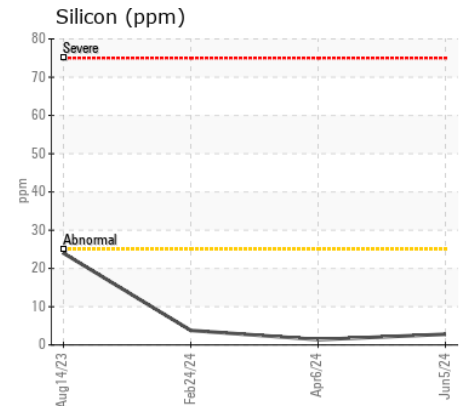
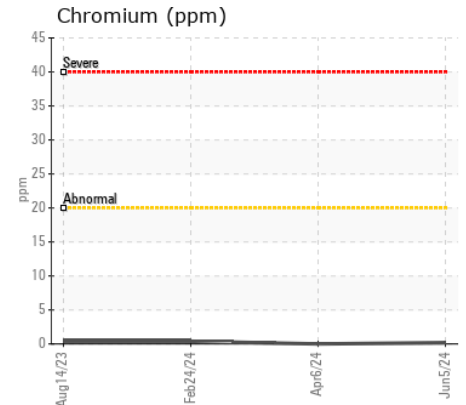
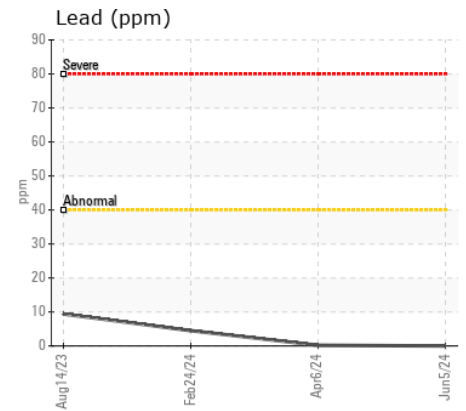
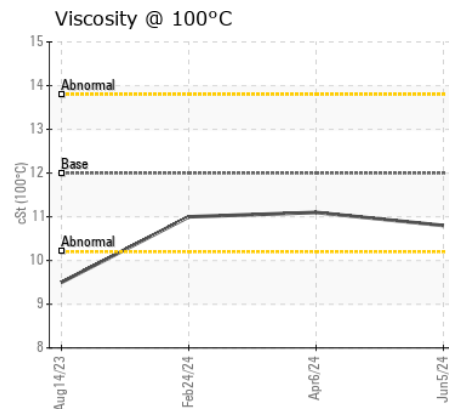
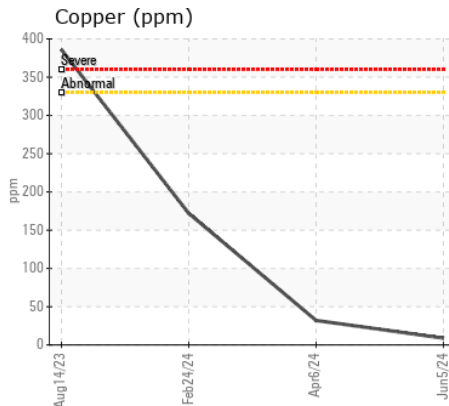
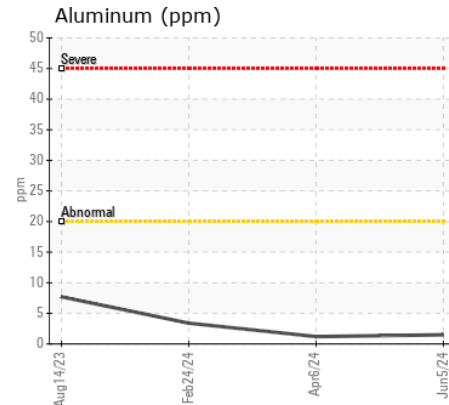
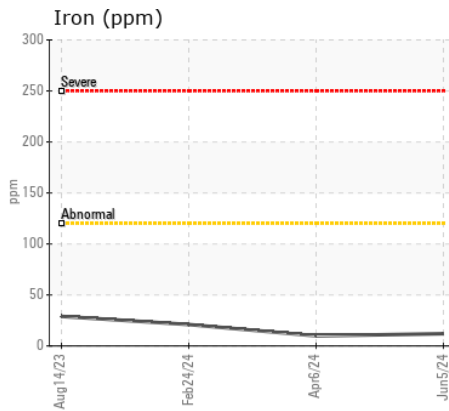
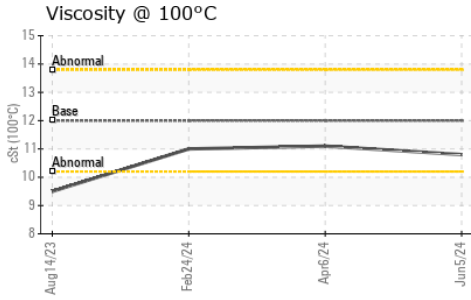
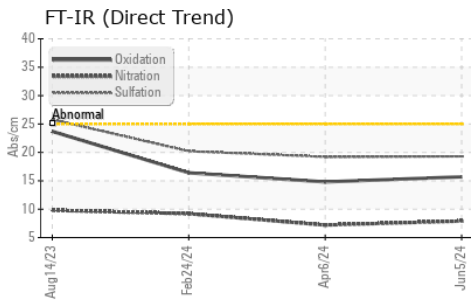
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	1	4
Potassium	ppm	ASTM D5185(m)	>20	2	1	7
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	0.2	0.1	0.2
Nitration	Abs/cm	ASTM D7624*	>20	7.9	7.2	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	19.2	20.2
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	1	1
Boron	ppm	ASTM D5185(m)	2	2	2	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	56	58	61
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	867	958	953
Calcium	ppm	ASTM D5185(m)	1050	993	1013	1044
Phosphorus	ppm	ASTM D5185(m)	995	959	982	999
Zinc	ppm	ASTM D5185(m)	1180	1119	1135	1143
Sulfur	ppm	ASTM D5185(m)	2600	2378	2501	2417
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	14.8	16.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.8	11.1	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0118977
Lab Number : 02642753
Unique Number : 5800292
Test Package : MOB 1

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 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.