



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
7819
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (28 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113274	GFL0097534	GFL0088949
Sample Date		Client Info		19 Feb 2024	18 Dec 2023	25 Sep 2023
Machine Age	hrs	Client Info		25816	25475	24973
Oil Age	hrs	Client Info		334	24973	1498
Filter Age	hrs	Client Info		334	24973	1498
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	13	20	5
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>4	<1	<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)	>15	3	3	1
Lead	ppm	ASTM D5185(m)	>25	<1	0	<1
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

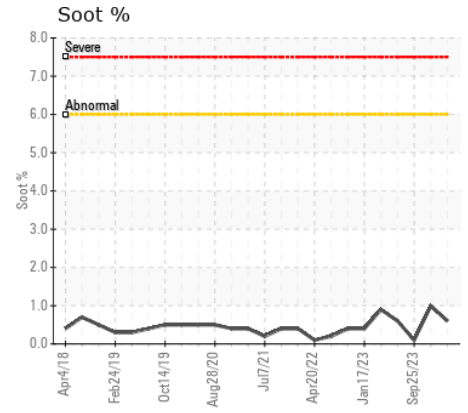
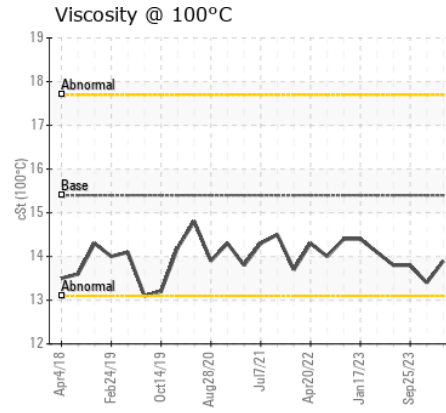
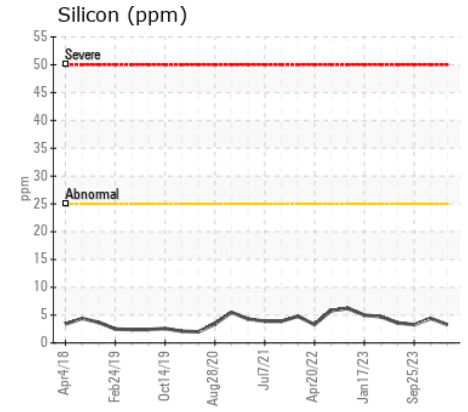
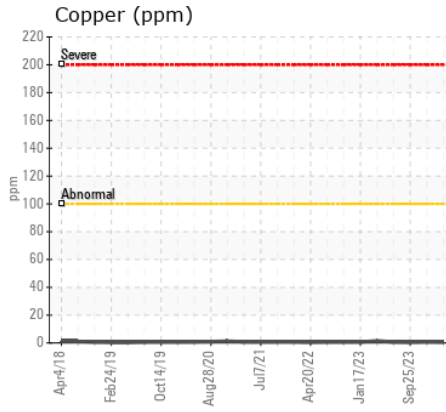
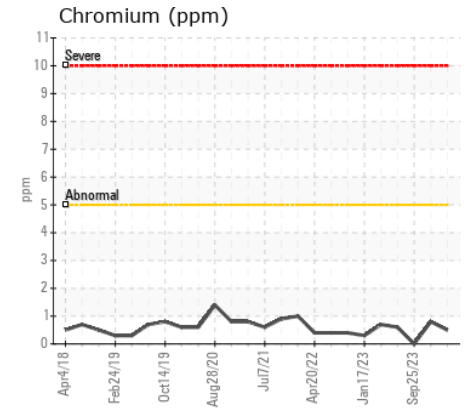
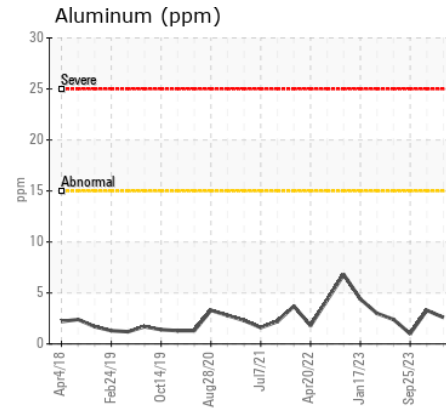
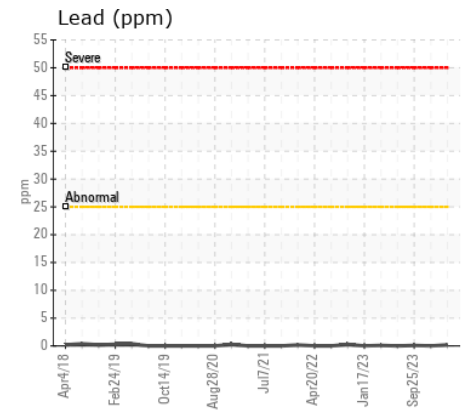
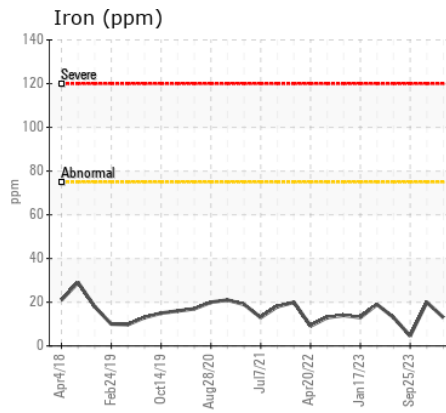
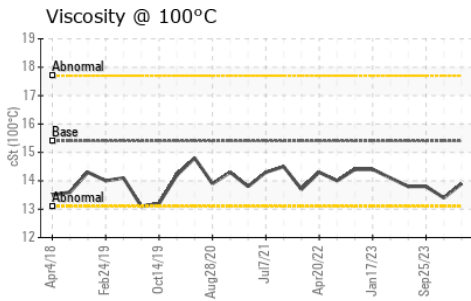
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	4	3
Potassium	ppm	ASTM D5185(m)	>20	4	6	1
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*	>6	0.6	1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.9	11.3	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	23.6	18.3
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)		3	8	4
Boron	ppm	ASTM D5185(m)	0	3	4	7
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	58	60	59
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	928	930	932
Calcium	ppm	ASTM D5185(m)	1070	1041	1052	1038
Phosphorus	ppm	ASTM D5185(m)	1150	973	966	993
Zinc	ppm	ASTM D5185(m)	1270	1144	1155	1154
Sulfur	ppm	ASTM D5185(m)	2060	2492	2401	2506
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.2	22.1	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	13.4	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113274 **Received** : 21 Feb 2024
Lab Number : 02616961 **Tested** : 22 Feb 2024
Unique Number : 5734071 **Diagnosed** : 22 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.