



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1922
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0895812	WC0883001	WC0864999
Sample Date		Client Info		18 Jan 2024	30 Nov 2023	12 Oct 2023
Machine Age	hrs	Client Info		16012	15479	14945
Oil Age	hrs	Client Info		534	534	529
Filter Age	hrs	Client Info		534	0	529
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	11	11	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>40	<1	1	1
Copper	ppm	ASTM D5185(m)	>330	4	4	5
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

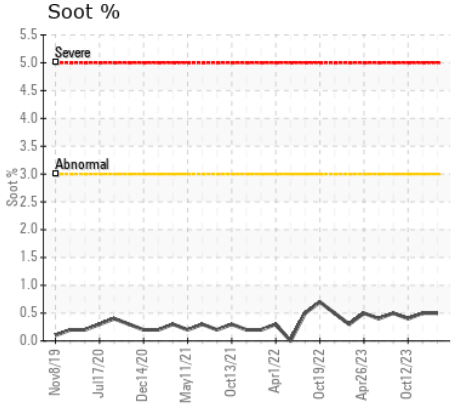
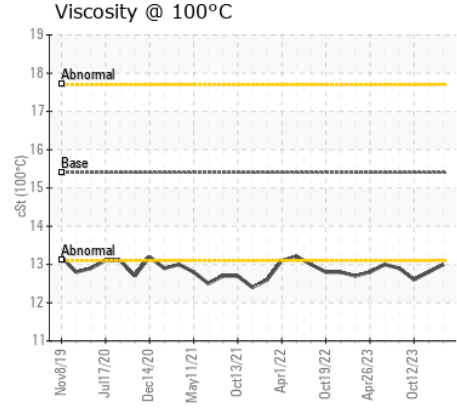
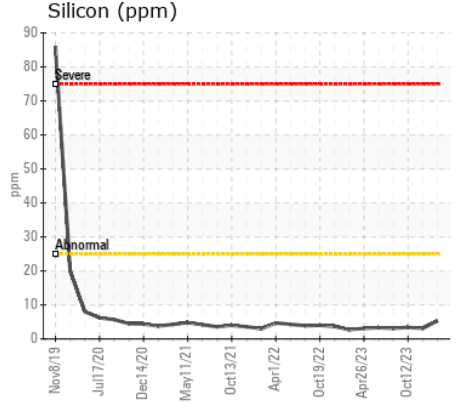
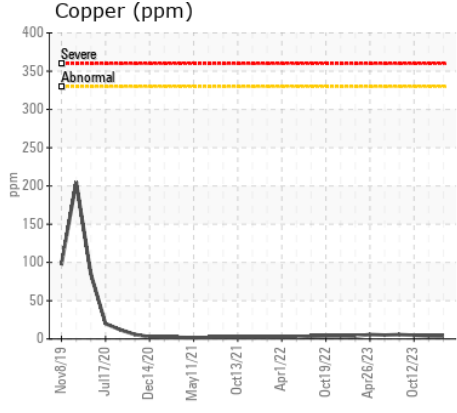
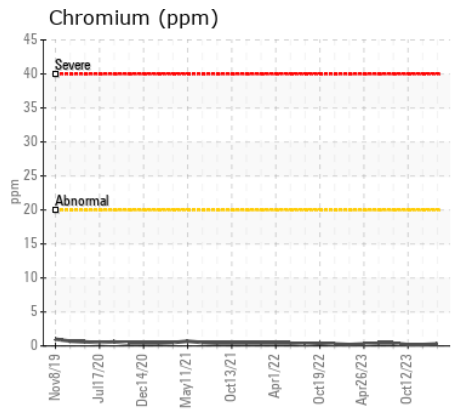
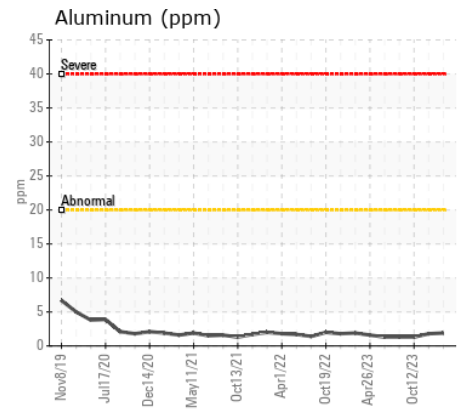
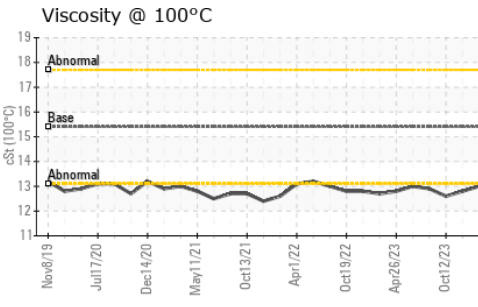
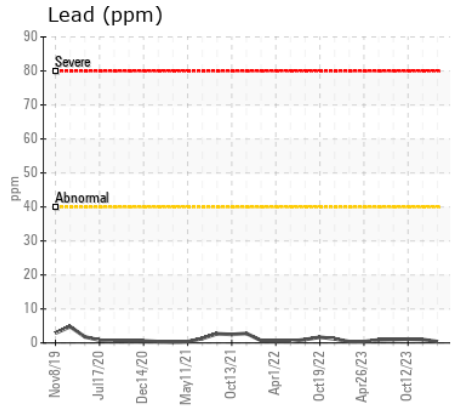
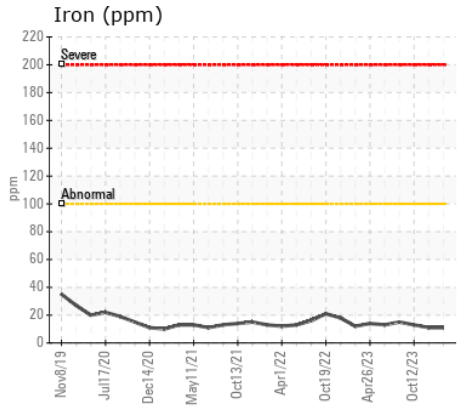
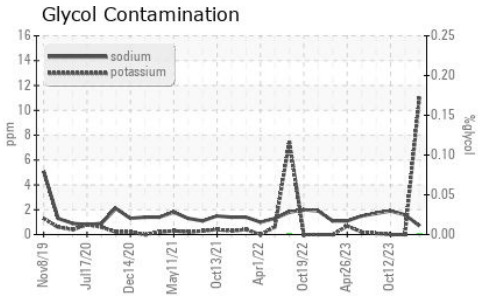
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	3	3
Potassium	ppm	ASTM D5185(m)	>20	11	0	0
Fuel		WC Method	>5	<1.0	<1.0	1.8
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.3	9.2	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	24.4	24.5
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	2	2
Boron	ppm	ASTM D5185(m)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	60	59	60
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	991	966	978
Calcium	ppm	ASTM D5185(m)	1070	1080	1048	1065
Phosphorus	ppm	ASTM D5185(m)	1150	1036	968	1010
Zinc	ppm	ASTM D5185(m)	1270	1206	1187	1207
Sulfur	ppm	ASTM D5185(m)	2060	2825	2483	2500
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	24.7	25.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.0	12.8	12.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895812 **Received** : 22 Jan 2024
Lab Number : 02610130 **Diagnosed** : 23 Jan 2024
Unique Number : 5711216 **Diagnostician** : Wes Davis
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.