



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
WESTERN STAR X3703 (GREG)
Component
Front Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (37 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC415720	PC0011574	PC0010722
Sample Date		Client Info		10 Jan 2024	25 Oct 2023	04 May 2023
Machine Age	hrs	Client Info		12297	11965	11687
Oil Age	hrs	Client Info		610	300	630
Filter Age	hrs	Client Info		610	300	630
Oil Changed		Client Info		Changed	Not Chngd	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)	>65	12	12	13
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>5	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>35	4	4	5
Lead	ppm	ASTM D5185(m)	>10	0	0	0
Copper	ppm	ASTM D5185(m)	>180	2	2	2
Tin	ppm	ASTM D5185(m)	>8	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

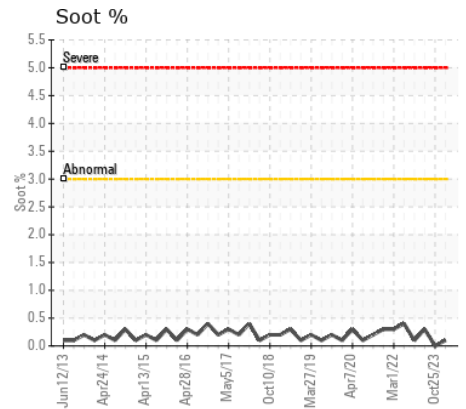
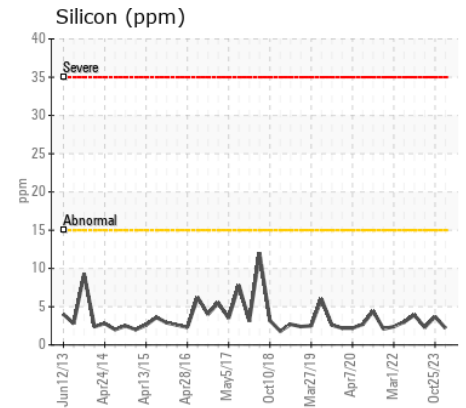
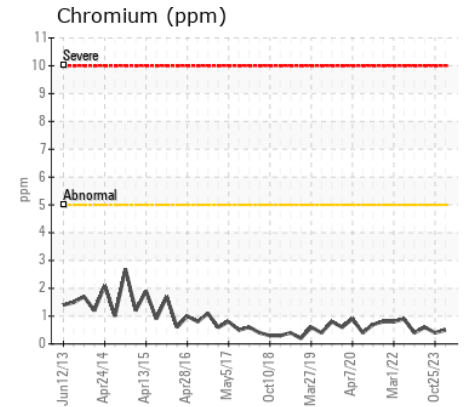
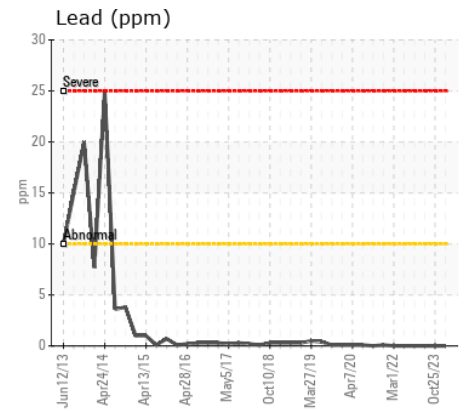
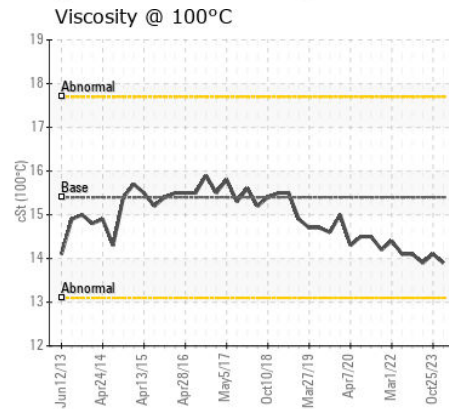
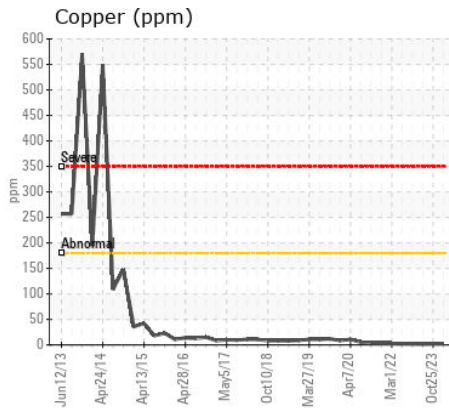
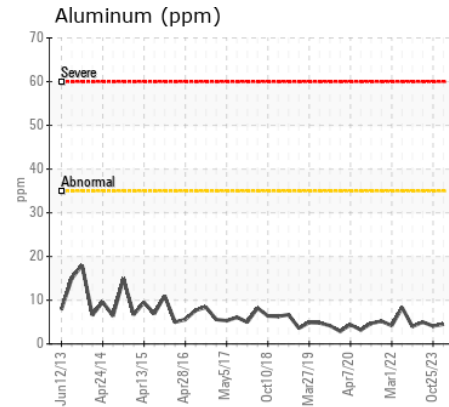
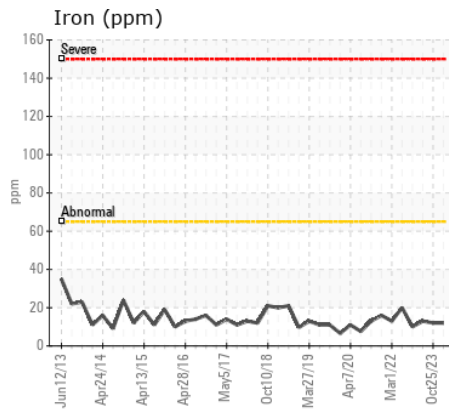
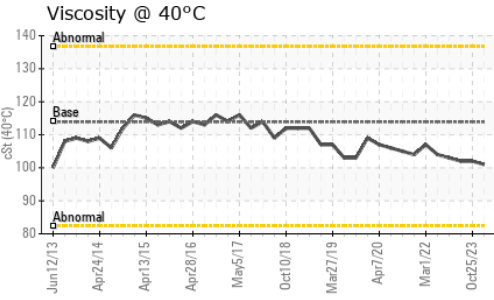
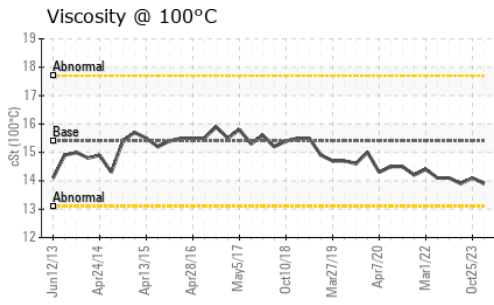
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	2	4	2
Potassium	ppm	ASTM D5185(m)	>20	<1	2	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*	>3	0.1	0	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.8	6.6	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	18.6	19.4
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)		1	2	1
Boron	ppm	ASTM D5185(m)	0	3	4	<1
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	60	67	59
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	967	1106	963
Calcium	ppm	ASTM D5185(m)	1070	1057	1170	1067
Phosphorus	ppm	ASTM D5185(m)	1150	1000	1114	1073
Zinc	ppm	ASTM D5185(m)	1270	1171	1342	1176
Sulfur	ppm	ASTM D5185(m)	2060	2564	2885	2566
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.6	14.2	15.1
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	101	102	102
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	14.1	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	142	139	140	137



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC415720 **Received** : 15 Jan 2024
Lab Number : 02608689 **Diagnosed** : 15 Jan 2024
Unique Number : 5709775 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.