



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
C-449
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0903680	WC0879652	---
Sample Date		Client Info		28 Feb 2024	06 Nov 2023	---
Machine Age	kms	Client Info		585467	562409	---
Oil Age	kms	Client Info		23058	54496	---
Filter Age	kms	Client Info		23058	54496	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>65	16	23	---
Chromium	ppm	ASTM D5185(m)	>5	1	1	---
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>5	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>35	10	10	---
Lead	ppm	ASTM D5185(m)	>10	0	0	---
Copper	ppm	ASTM D5185(m)	>180	8	6	---
Tin	ppm	ASTM D5185(m)	>8	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

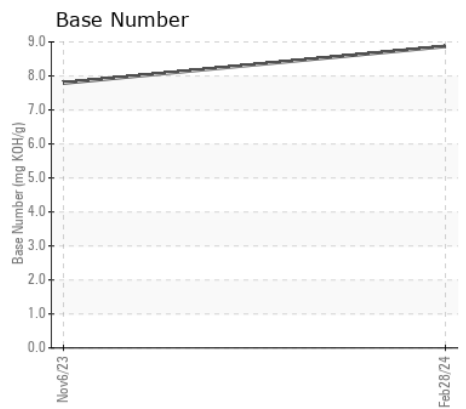
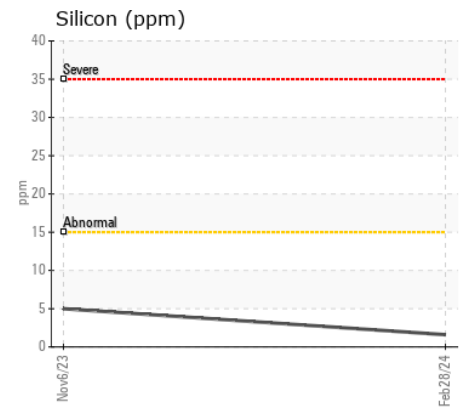
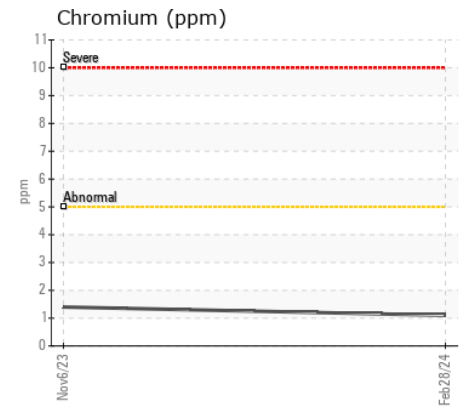
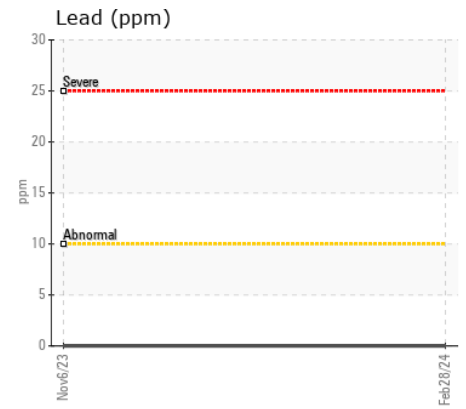
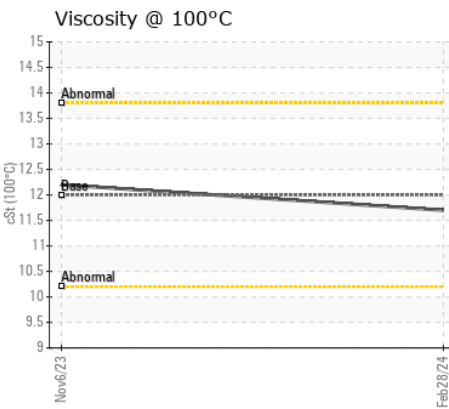
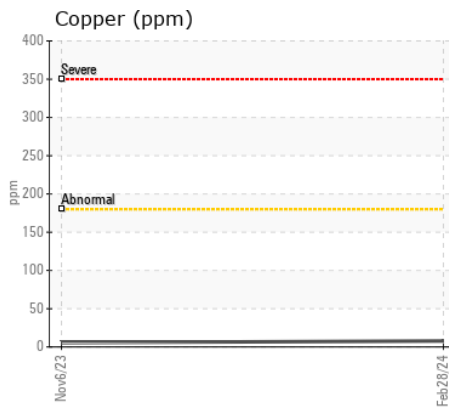
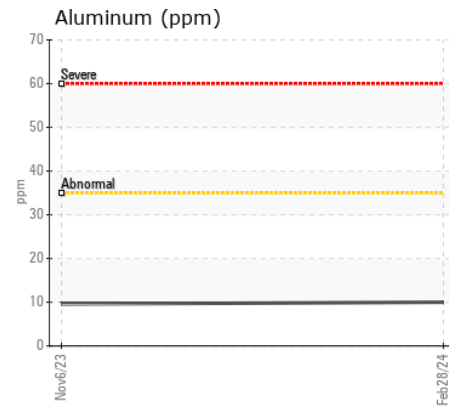
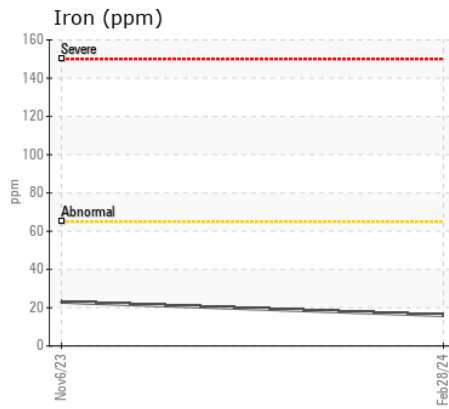
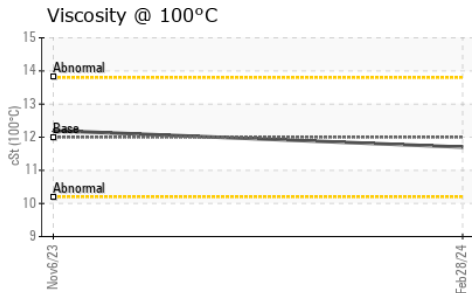
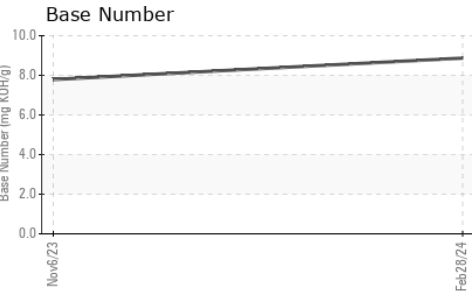
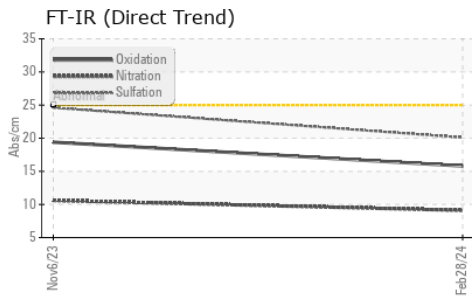
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	2	5	---
Potassium	ppm	ASTM D5185(m)	>20	2	4	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.4	0.9	---
Nitration	Abs/cm	ASTM D7624*	>20	9.1	10.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	24.6	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		1	2	---
Boron	ppm	ASTM D5185(m)	2	4	4	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	50	60	57	---
Manganese	ppm	ASTM D5185(m)	0	<1	0	---
Magnesium	ppm	ASTM D5185(m)	950	963	893	---
Calcium	ppm	ASTM D5185(m)	1050	1108	1287	---
Phosphorus	ppm	ASTM D5185(m)	995	987	1010	---
Zinc	ppm	ASTM D5185(m)	1180	1183	1235	---
Sulfur	ppm	ASTM D5185(m)	2600	2407	2434	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.8	19.4	---
Base Number (BN)	mg KOH/g	ASTM D2896*		8.87	7.79	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.7	12.2	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0903680 **Received** : 22 Apr 2024
Lab Number : 02630450 **Tested** : 23 Apr 2024
Unique Number : 5763582 **Diagnosed** : 23 Apr 2024 - Kevin Marson
Test Package : MOB 2

Moncton - Transport Laberge
 180 Edinburg Drive, Suite 1A
 Moncton, NB
 CA E1E 2K7
 Contact: Service Manager

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.

T:
F: