

Machine Id
223-1603
Component
Transmission (Manual)
Fluid
PETRO CANADA DURATRAN (--- GAL)

RECOMMENDATION

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084889	---	---
Sample Date		Client Info		13 Feb 2024	---	---
Machine Age	hrs	Client Info		11339	---	---
Oil Age	hrs	Client Info		2000	---	---
Filter Age	hrs	Client Info		2000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

PQ		ASTM D8184*	>95	12	---	---
Iron	ppm	ASTM D5185(m)	>200	▲ 297	---	---
Chromium	ppm	ASTM D5185(m)	>5	3	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>7	0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	2	---	---
Lead	ppm	ASTM D5185(m)	>45	<1	---	---
Copper	ppm	ASTM D5185(m)	>225	33	---	---
Tin	ppm	ASTM D5185(m)	>10	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

There is no indication of any contamination in the fluid.

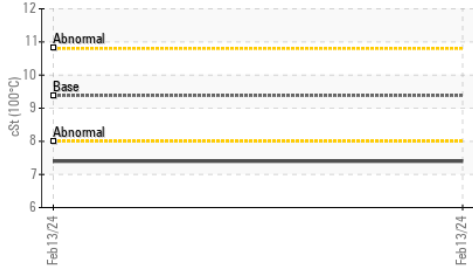
Silicon	ppm	ASTM D5185(m)	>125	5	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---
Water		WC Method	>0.1	NEG	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

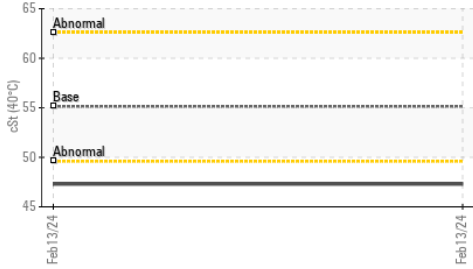
Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		<1	---	---
Boron	ppm	ASTM D5185(m)	110	2	---	---
Barium	ppm	ASTM D5185(m)	0.0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0.0	<1	---	---
Manganese	ppm	ASTM D5185(m)	1	3	---	---
Magnesium	ppm	ASTM D5185(m)	13	78	---	---
Calcium	ppm	ASTM D5185(m)	3610	2844	---	---
Phosphorus	ppm	ASTM D5185(m)	1192	876	---	---
Zinc	ppm	ASTM D5185(m)	1455	952	---	---
Sulfur	ppm	ASTM D5185(m)	2641	2950	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	▲ 47.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	▲ 7.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	153	119	---	---

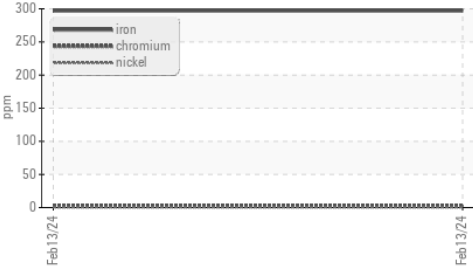
▲ Viscosity @ 100°C



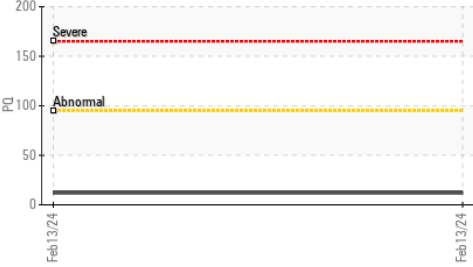
▲ Viscosity @ 40°C



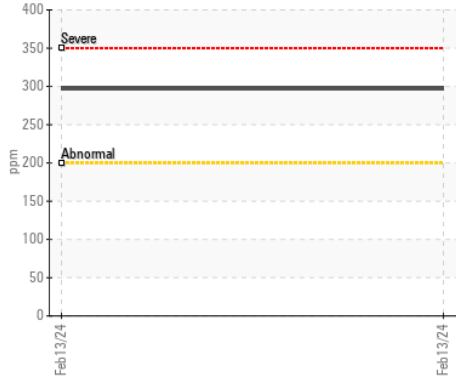
▲ Ferrous Alloys



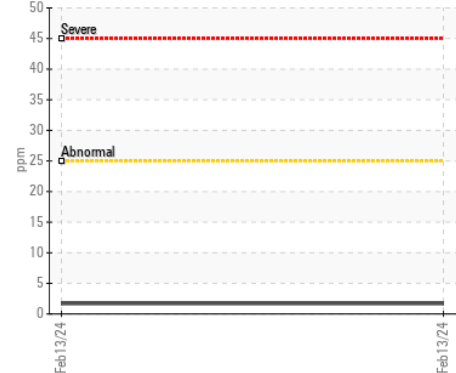
PQ



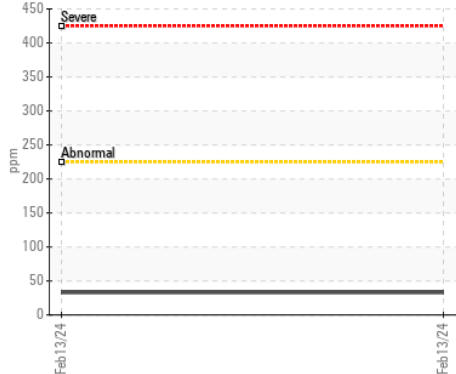
▲ Iron (ppm)



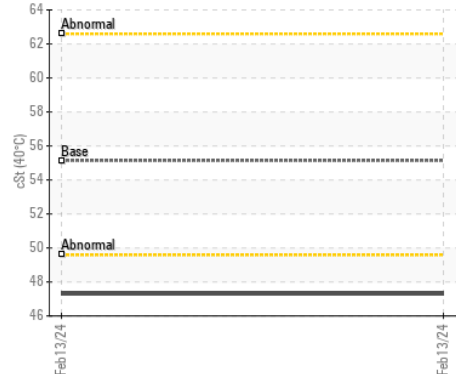
Aluminum (ppm)



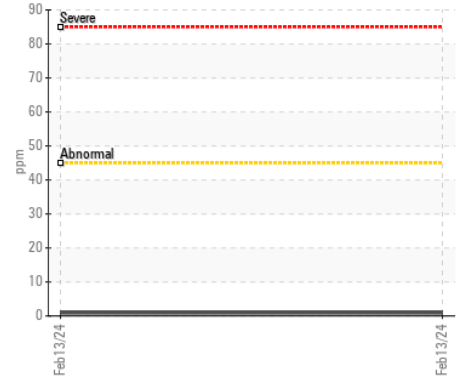
Copper (ppm)



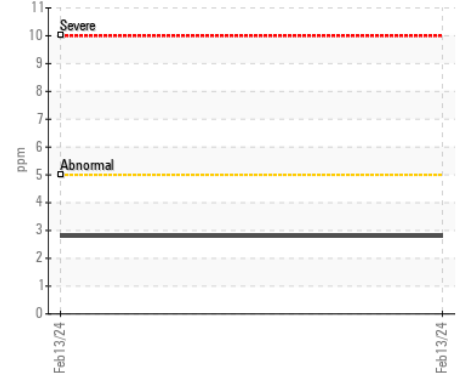
▲ Viscosity @ 40°C



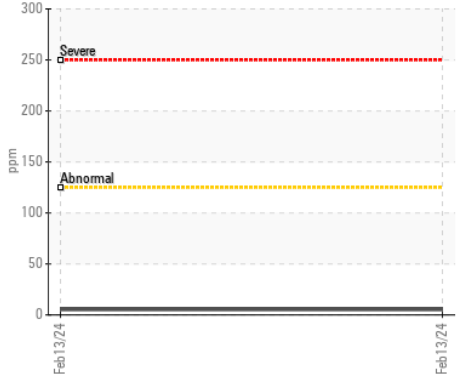
Lead (ppm)



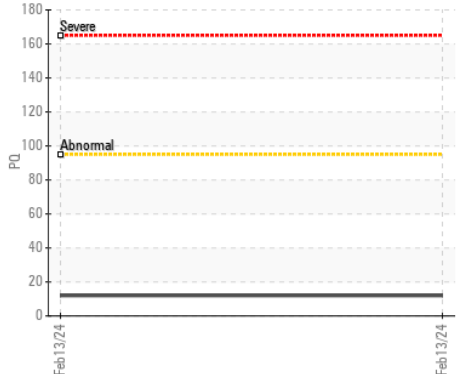
Chromium (ppm)



Silicon (ppm)



PQ



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : PC0084889

Lab Number : 02618732

Unique Number : 5735842

Test Package : MOB 1 (Additional Tests: KV100, PQ, VI)

Received : 28 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 29 Feb 2024 - Kevin Marson

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.

LAVIS CONTRACTING

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