

Machine Id
CORNER NO UNIT PC0083251

Component
Gearbox

Fluid
PETRO CANADA COMPRO XL-S COMPRESSOR FLUID 100 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083251	---	---
Sample Date		Client Info		11 Jun 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
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*		0	---	---
Iron	ppm	ASTM D5185(m)	>200	▲ 324	---	---
Chromium	ppm	ASTM D5185(m)	>10	<1	---	---
Nickel	ppm	ASTM D5185(m)	>10	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	---	---
Lead	ppm	ASTM D5185(m)	>50	24	---	---
Copper	ppm	ASTM D5185(m)	>200	119	---	---
Tin	ppm	ASTM D5185(m)	>10	4	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

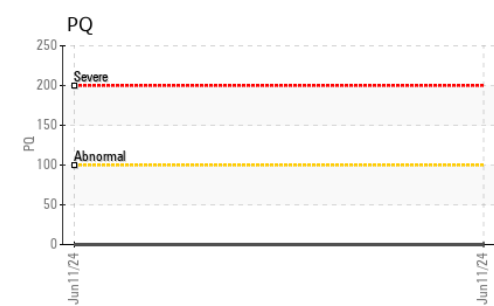
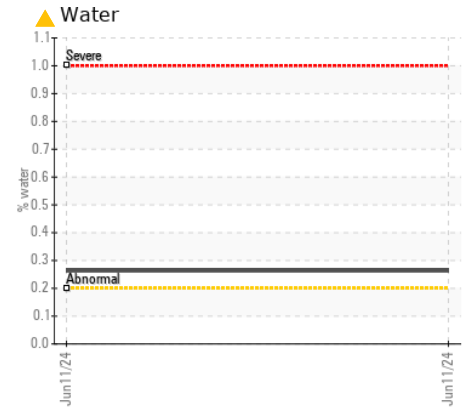
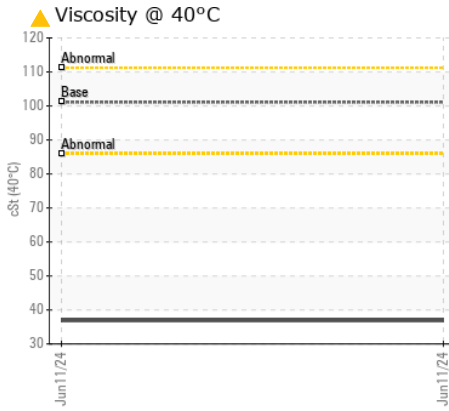
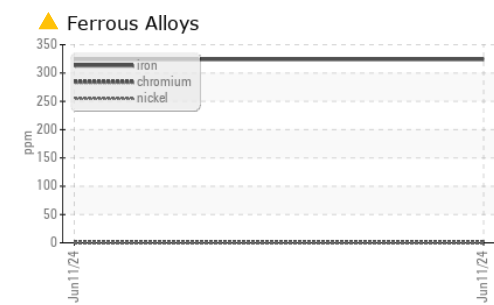
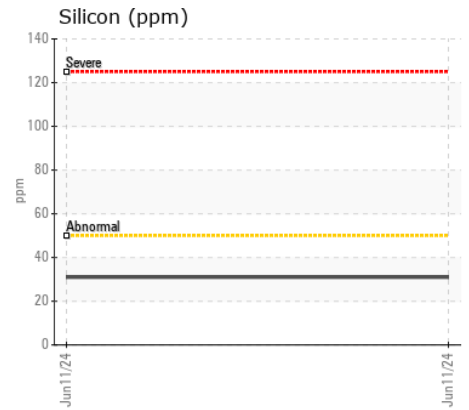
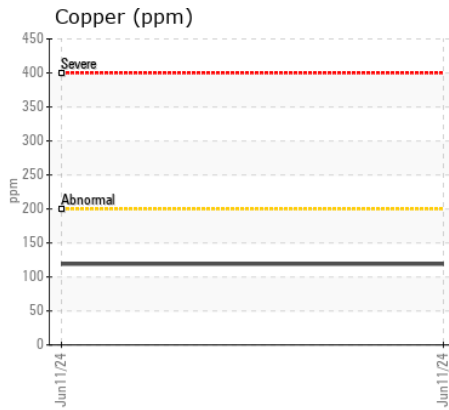
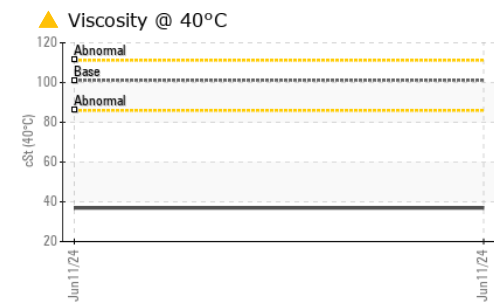
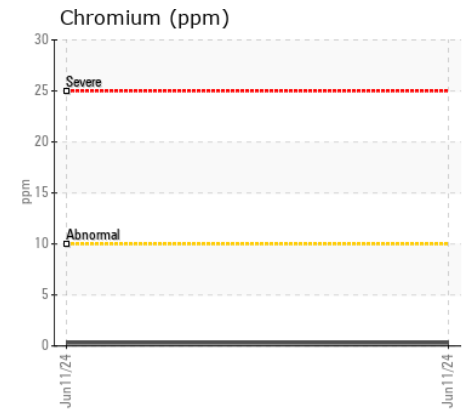
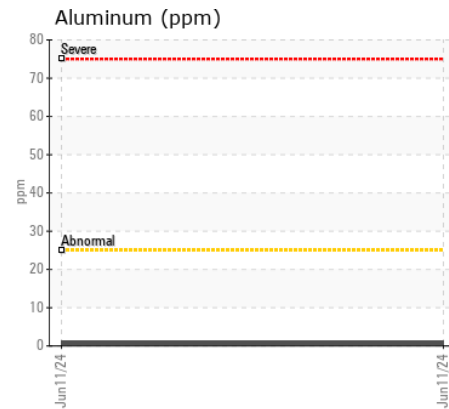
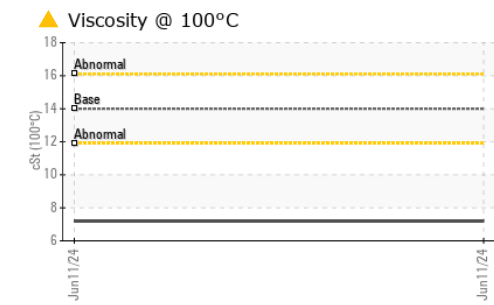
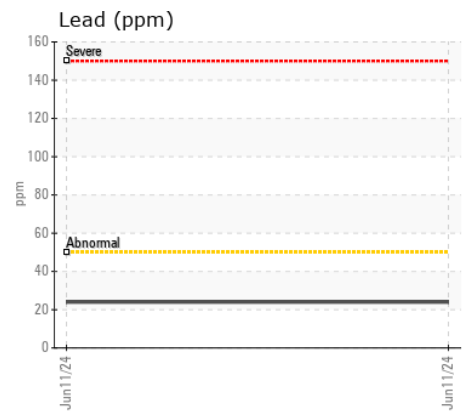
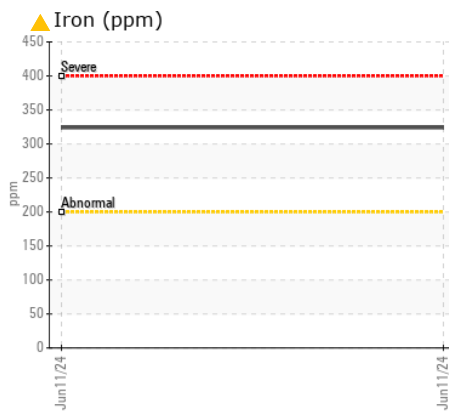
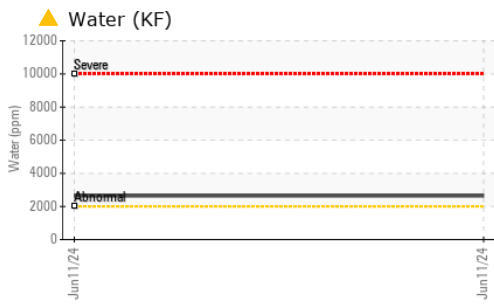
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185(m)	>50	31	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Water	%	ASTM D6304*	>0.2	▲ 0.263	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 2639	---	---
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*	>0.2	▲ .5%	---	---

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		67	---	---
Boron	ppm	ASTM D5185(m)		1	---	---
Barium	ppm	ASTM D5185(m)	40	<1	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		5	---	---
Magnesium	ppm	ASTM D5185(m)		1	---	---
Calcium	ppm	ASTM D5185(m)	40	211	---	---
Phosphorus	ppm	ASTM D5185(m)	320	248	---	---
Zinc	ppm	ASTM D5185(m)	40	300	---	---
Sulfur	ppm	ASTM D5185(m)	3000	2747	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	101.1	▲ 36.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.00	▲ 7.2	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	141	162	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083251 **Received** : 13 Jun 2024
Lab Number : 02641742 **Tested** : 14 Jun 2024
Unique Number : 5799281 **Diagnosed** : 14 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KF, KV100, PQ, VI)

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.

NITRO MILLWRIGHT
 1277 CHEADLE ST W
 SWIFT CURRENT, SK
 CA S9H 0C8
 Contact: Nitro Millwright
 nitromillwright@yahoo.ca
 T: (306)774-5759
 F: