



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
KOMATSU 223-1803
 Component
Transmission (Manual)
 Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084899	---	---
Sample Date		Client Info		09 Jan 2024	---	---
Machine Age	hrs	Client Info		9665	---	---
Oil Age	hrs	Client Info		1500	---	---
Filter Age	hrs	Client Info		1500	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	9	---	---
Chromium	ppm	ASTM D5185(m)	>5	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>7	0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	1	---	---
Lead	ppm	ASTM D5185(m)	>45	<1	---	---
Copper	ppm	ASTM D5185(m)	>225	12	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
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	10	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
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

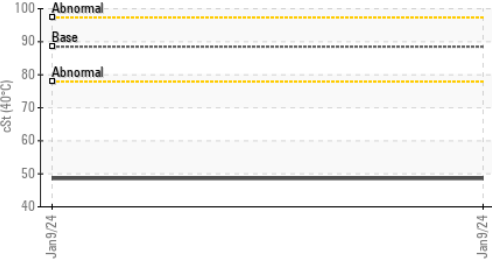
Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)	2	87	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	3	---	---
Manganese	ppm	ASTM D5185(m)	9	0	---	---
Magnesium	ppm	ASTM D5185(m)	1	43	---	---
Calcium	ppm	ASTM D5185(m)	3131	3378	---	---
Phosphorus	ppm	ASTM D5185(m)	1194	1103	---	---
Zinc	ppm	ASTM D5185(m)	1281	1299	---	---
Sulfur	ppm	ASTM D5185(m)	3811	6269	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	▲ 48.6	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.01	▲ 7.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	110	121	---	---

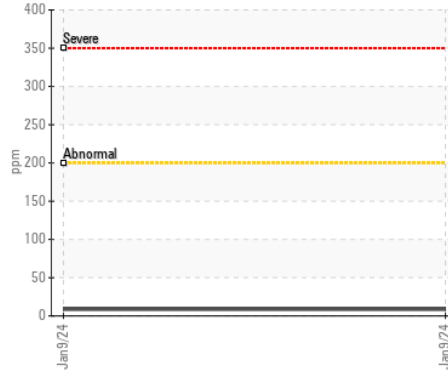
▲ Viscosity @ 100°C



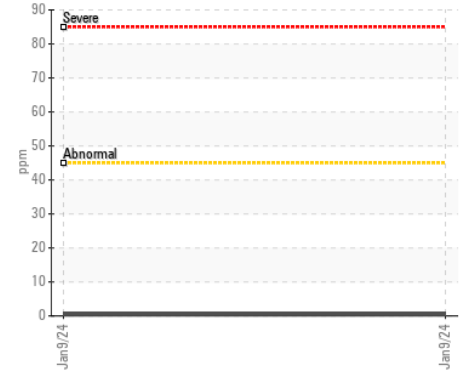
▲ Viscosity @ 40°C



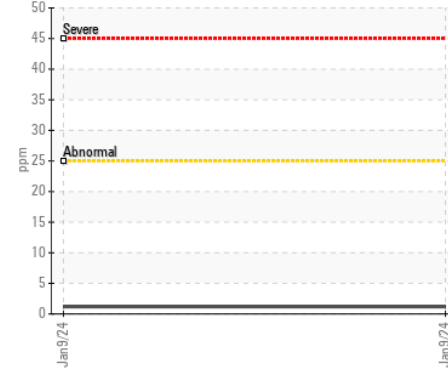
Iron (ppm)



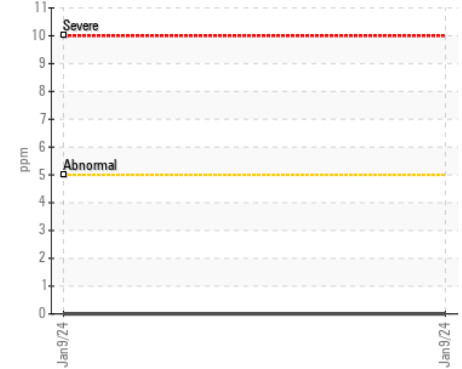
Lead (ppm)



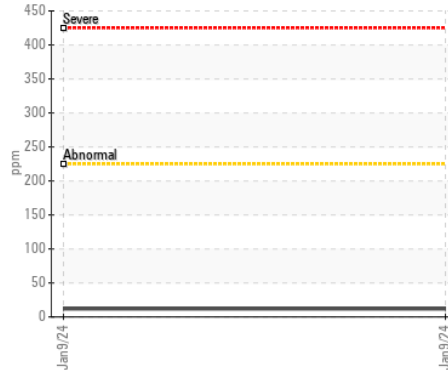
Aluminum (ppm)



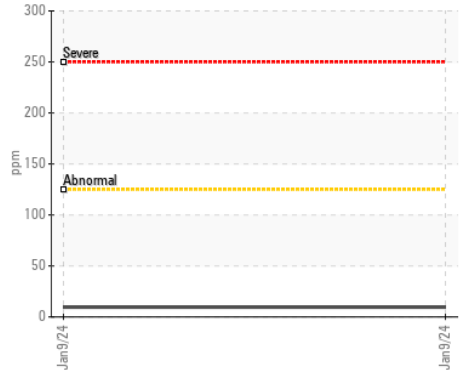
Chromium (ppm)



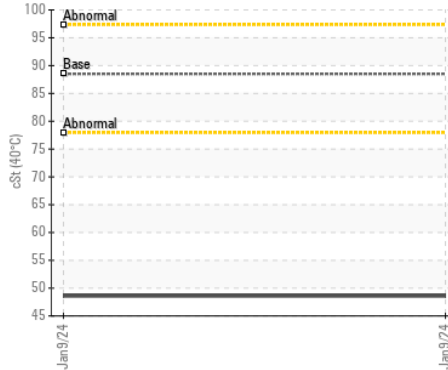
Copper (ppm)



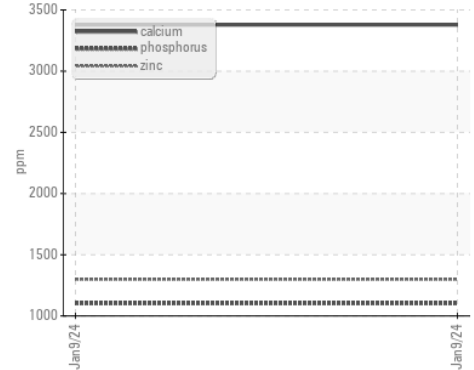
Silicon (ppm)



▲ Viscosity @ 40°C



Additives



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084899 **Received** : 15 Jan 2024
Lab Number : 02608752 **Diagnosed** : 15 Jan 2024
Unique Number : 5709838 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV100, 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.

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