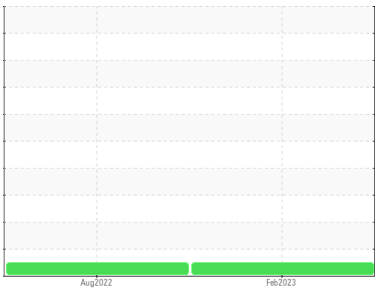
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
PURITY PETRO CANADA FG 68 AW
Component
New (Unused) Oil
Fluid
{not provided} (--- LTR)

DIAGNOSIS

Recommendation
This is the baseline readout on this new (unused) oil. The fluid is suitable for service.

Wear
{not applicable}

Contamination
There is no indication of any contamination in the new (unused) oil.

Fluid Condition
The condition of the oil is suitable for service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC05764203**	WC0503785	---
Sample Date		Client Info		**09 Feb 2023**	04 Aug 2022	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**NORMAL**	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	**<1**	0	---
Chromium	ppm	ASTM D5185m	>5	**0**	0	---
Nickel	ppm	ASTM D5185m	>5	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m	>5	**0**	<1	---
Aluminum	ppm	ASTM D5185m	>5	**0**	<1	---
Lead	ppm	ASTM D5185m	>5	**0**	0	---
Copper	ppm	ASTM D5185m	>5	**0**	0	---
Tin	ppm	ASTM D5185m	>5	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	2	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	0	---
Magnesium	ppm	ASTM D5185m		**<1**	0	---
Calcium	ppm	ASTM D5185m		**0**	0	---
Phosphorus	ppm	ASTM D5185m		**417**	485	---
Zinc	ppm	ASTM D5185m		**6**	0	---
Sulfur	ppm	ASTM D5185m		**344**	637	---

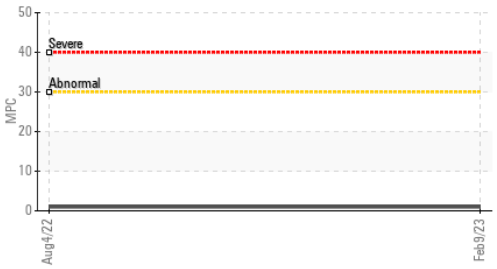
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**3**	2	---
Sodium	ppm	ASTM D5185m		**<1**	0	---
Potassium	ppm	ASTM D5185m	>20	**0**	0	---
Water	%	ASTM D6304		**0.001**	---	---
ppm Water	ppm	ASTM D6304		**13.8**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**937**	703	---
Particles >6µm		ASTM D7647	>1300	**200**	94	---
Particles >14µm		ASTM D7647	>160	**9**	12	---
Particles >21µm		ASTM D7647	>40	**1**	3	---
Particles >38µm		ASTM D7647	>10	**0**	0	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**17/15/10**	17/14/11	---

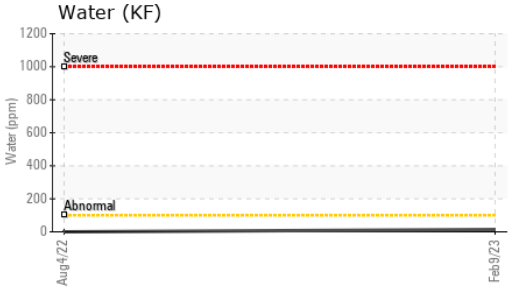
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.28**	0.28	---
MPC Varnish Potential	Scale	ASTM D7843	>15	**1**	1	---

OIL ANALYSIS REPORT

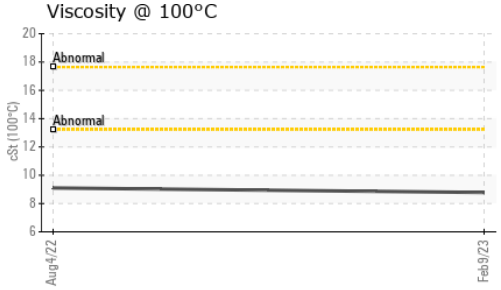
Varnish Potential



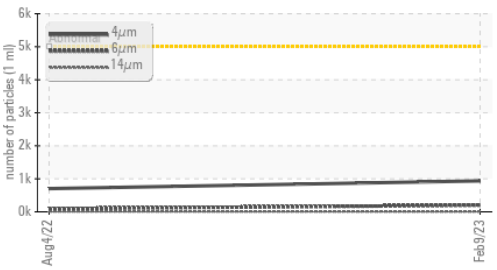
Water (KF)



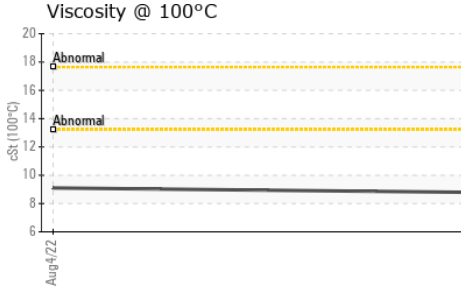
Viscosity @ 100°C



Particle Trend

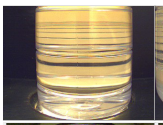
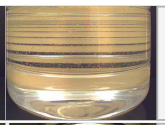
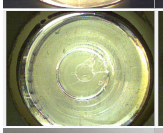
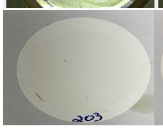
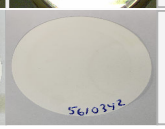


Viscosity @ 100°C



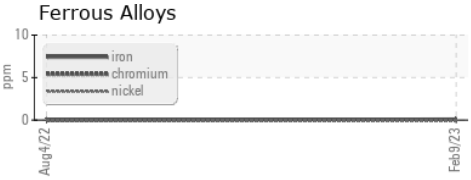
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual		**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**65.53**	66.5	---
Visc @ 100°C	cSt	ASTM D445		**8.78**	9.1	---
Viscosity Index (VI)	Scale	ASTM D2270		**106**	112	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*
MPC					*no image*

GRAPHS

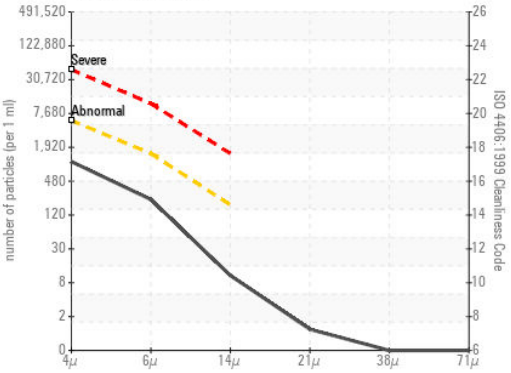
Ferrous Alloys



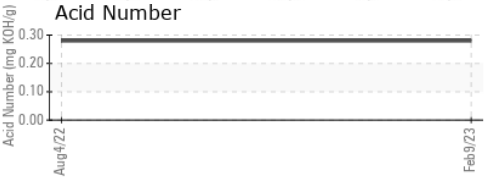
Non-ferrous Metals

Viscosity @ 40°C

Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05764203 **Received** : 09 Feb 2023
Lab Number : 05764203 **Diagnosed** : 14 Feb 2023
Unique Number : 10333811 **Diagnostician** : Doug Bogart
Test Package : AOM 1 (Additional Tests: FT-IR, ICP-NewOil, KF)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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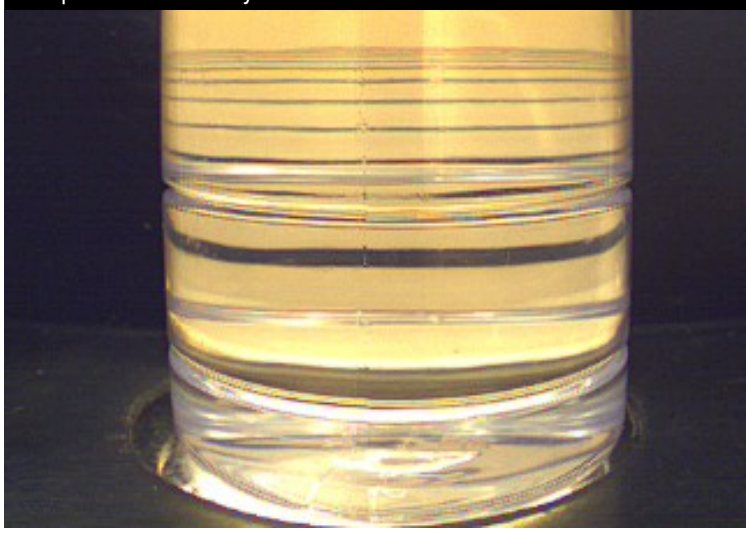
MPC (Varnish Test)

Sample Color & Clarity



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