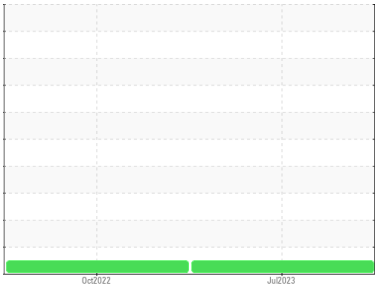
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
0152
Component
Transmission (Auto)
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: Trans oil interval over by 2837 kms.)

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the fluid.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0061549**	PC0052693	---
Sample Date		Client Info		**12 Jul 2023**	21 Oct 2022	---
Machine Age	kms	Client Info		**1193277**	1140357	---
Oil Age	kms	Client Info		**52837**	42163	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**NORMAL**	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>50	**0**	0	---
Iron	ppm	ASTM D5185(m)	>160	**50**	29	---
Chromium	ppm	ASTM D5185(m)	>5	**0**	0	---
Nickel	ppm	ASTM D5185(m)	>5	**0**	0	---
Titanium	ppm	ASTM D5185(m)		**<1**	0	---
Silver	ppm	ASTM D5185(m)	>5	**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>50	**4**	2	---
Lead	ppm	ASTM D5185(m)	>50	**1**	0	---
Copper	ppm	ASTM D5185(m)	>225	**4**	2	---
Tin	ppm	ASTM D5185(m)	>10	**<1**	0	---
Antimony	ppm	ASTM D5185(m)		**0**	<1	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

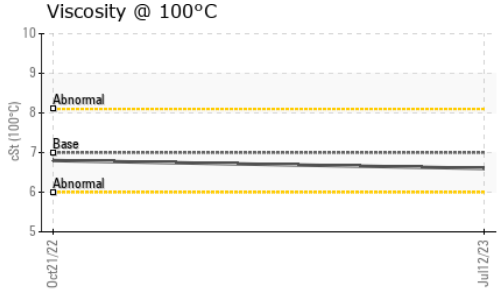
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	78	**69**	75	---
Barium	ppm	ASTM D5185(m)		**0**	0	---
Molybdenum	ppm	ASTM D5185(m)	0	**<1**	0	---
Manganese	ppm	ASTM D5185(m)		**<1**	<1	---
Magnesium	ppm	ASTM D5185(m)	0	**<1**	<1	---
Calcium	ppm	ASTM D5185(m)	113	**118**	110	---
Phosphorus	ppm	ASTM D5185(m)	222	**228**	230	---
Zinc	ppm	ASTM D5185(m)		**8**	7	---
Sulfur	ppm	ASTM D5185(m)	1326	**1583**	1805	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**4**	3	---
Sodium	ppm	ASTM D5185(m)		**5**	2	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	**1.04**	1.30	---

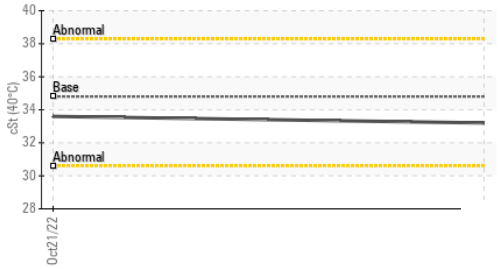
OIL ANALYSIS REPORT

Viscosity @ 100°C

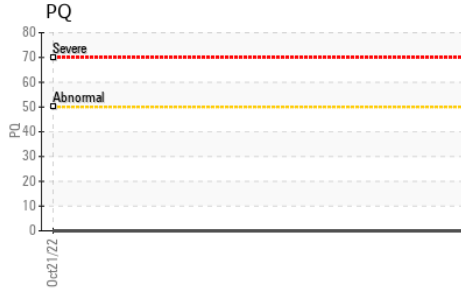


Viscosity @ 100°C

Viscosity @ 40°C

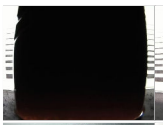


PQ



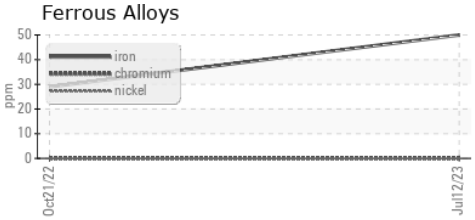
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**VLITE**	VLITE	---
Debris	scalar	Visual*	NONE	**VLITE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	---
Appearance	scalar	Visual*	NORML	**NORML**	NORML	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	---
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	**33.2**	33.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	7.0	**6.6**	6.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	167	**158**	166	---

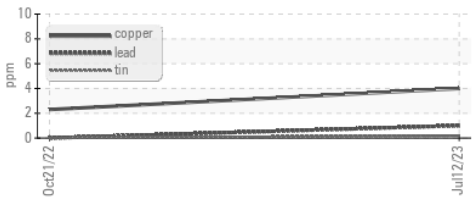
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

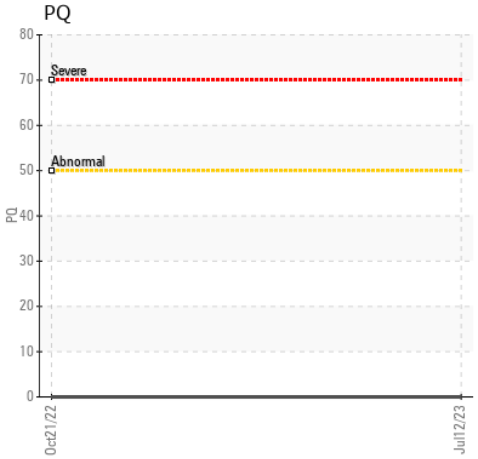
Ferrous Alloys



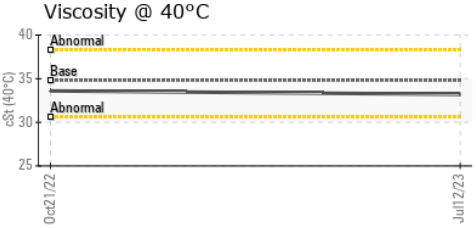
Non-ferrous Metals



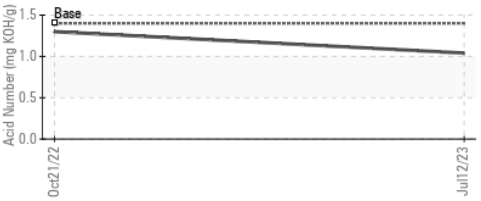
PQ



Viscosity @ 40°C



Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0061549 **Received** : 31 Jul 2023
Lab Number : 02573240 **Diagnosed** : 01 Aug 2023
Unique Number : 5618291 **Diagnostician** : Kevin Marson
Test Package : IND 2 (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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Report Id: STJNEW [WCAMIS] 02573240 (Generated: 08/01/2023 10:31:04) Rev: 1

Submitted By: Dan Finlay