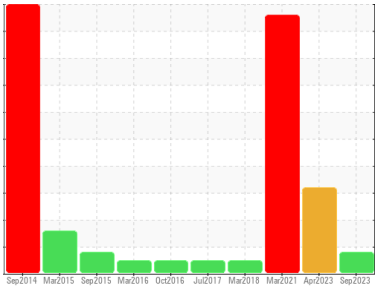
PROBLEM SUMMARY

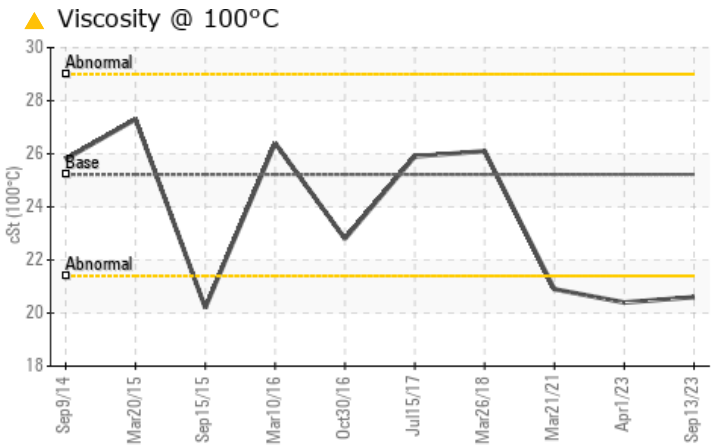
Sample Rating Trend

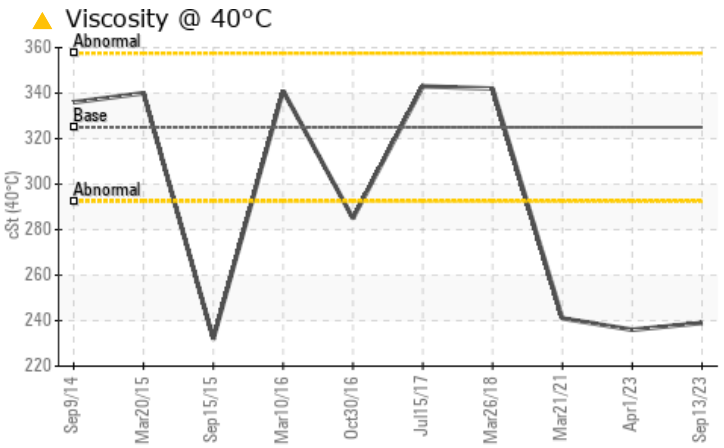


VISCOSITY

Machine Id
WESFALIA WHEY SEPARATOR (S/N 1662399)
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 320 (7 LTR)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	SEVERE
Visc @ 40°C	cSt	ASTM D7279(m)	325	▲ **239**	▲ 236	▲ 241
Visc @ 100°C	cSt	ASTM D7279(m)	25.22	▲ **20.6**	▲ 20.4	▲ 20.9

Customer Id: TAVTAV
Sample No.: PC0077113
Lab Number: 02585661
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

01 Apr 2023 Diag: Kevin Marson

WEAR

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.Copper, iron and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

21 Mar 2021 Diag: Kevin Marson

WEAR

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.Iron ppm levels are severe. PQ levels are abnormal. Tin ppm levels are abnormal. Gear wear is indicated. Bearing and/or bushing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

26 Mar 2018 Diag: Kevin Marson

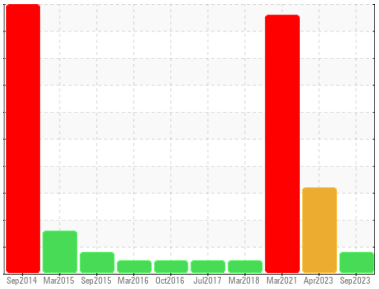
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
WESFALIA WHEY SEPARATOR (S/N 1662399)
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 320 (7 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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

Fluid Condition
Viscosity of sample indicates oil is within ISO 220 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC0077113**	PC0061371	PC0035325
Sample Date		Client Info		**13 Sep 2023**	01 Apr 2023	21 Mar 2021
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**17**	120	▲ 147
Iron	ppm	ASTM D5185(m)	>200	**53**	▲ 268	⬢ 465
Chromium	ppm	ASTM D5185(m)	>15	**<1**	3	4
Nickel	ppm	ASTM D5185(m)	>15	**3**	6	5
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**<1**	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	1	1
Lead	ppm	ASTM D5185(m)	>100	**4**	11	8
Copper	ppm	ASTM D5185(m)	>200	**173**	▲ 432	282
Tin	ppm	ASTM D5185(m)	>25	**23**	▲ 45	▲ 40
Antimony	ppm	ASTM D5185(m)	>5	**0**	<1	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

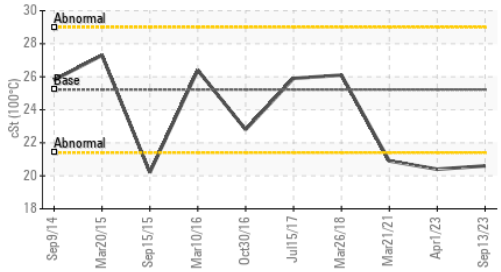
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	55	**3**	2	16
Barium	ppm	ASTM D5185(m)	0	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	0	**0**	0	<1
Manganese	ppm	ASTM D5185(m)	0	**0**	2	3
Magnesium	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Calcium	ppm	ASTM D5185(m)	0	**6**	9	3
Phosphorus	ppm	ASTM D5185(m)	240	**153**	157	255
Zinc	ppm	ASTM D5185(m)	1	**6**	11	9
Sulfur	ppm	ASTM D5185(m)	13700	**11357**	10671	3307
Lithium	ppm	ASTM D5185(m)		**<1**	2	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	**2**	4	16
Sodium	ppm	ASTM D5185(m)		**7**	4	29
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	<1

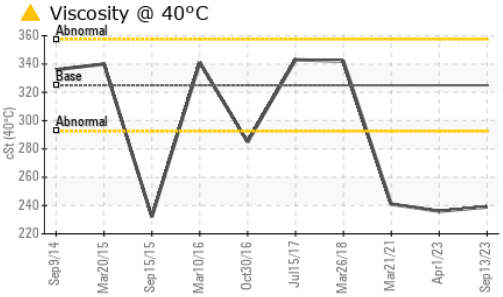
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.4	**0.41**	0.44	0.74

OIL ANALYSIS REPORT

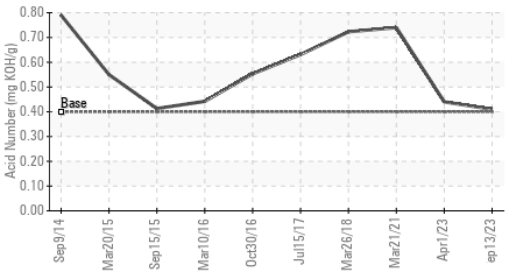
Viscosity @ 100°C



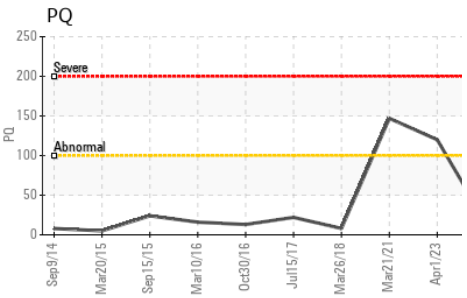
Viscosity @ 40°C



Acid Number



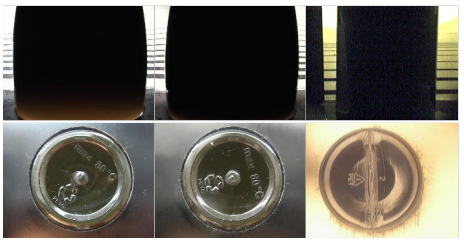
PQ



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	.2%
Free Water	scalar	Visual*		**NEG**	NEG	NEG

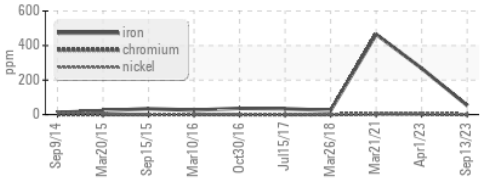
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	325	▲ **239**	▲ 236	▲ 241
Visc @ 100°C	cSt	ASTM D7279(m)	25.22	▲ **20.6**	▲ 20.4	▲ 20.9
Viscosity Index (VI)	Scale	ASTM D2270*	100	**100**	100	101

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

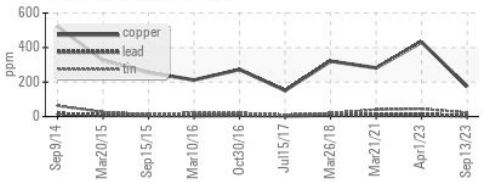


GRAPHS

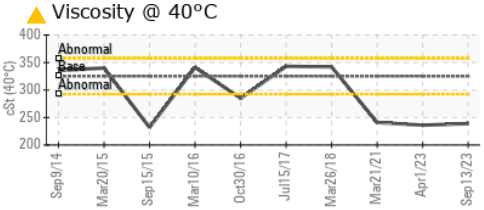
Ferrous Alloys



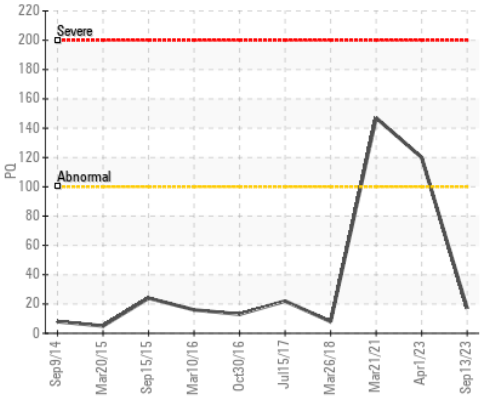
Non-ferrous Metals



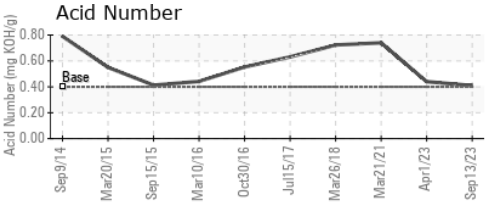
Viscosity @ 40°C



PQ



Acid Number



CALA
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0077113 **Received** : 27 Sep 2023
Lab Number : 02585661 **Diagnosed** : 28 Sep 2023
Unique Number : 5646726 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: KV100, TAN Man, 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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