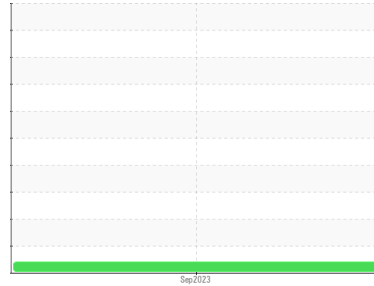


PROBLEM SUMMARY

Sample Rating Trend



ADDITIVES



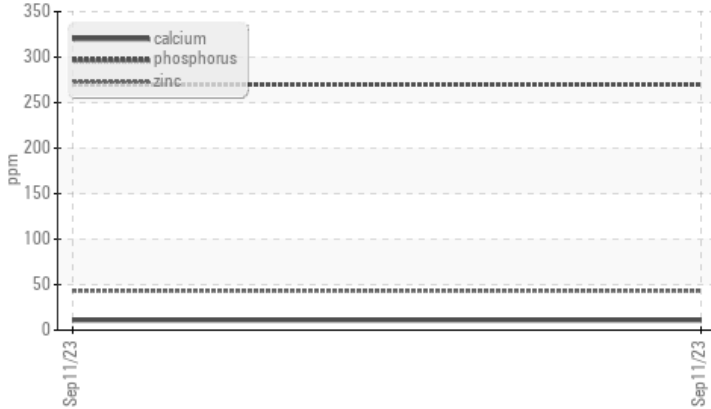
Machine Id
SILO #25

Component
Gearbox

Fluid
PETRO CANADA ENDURATEX EP 220 (--- GAL)

COMPONENT CONDITION SUMMARY

Additives



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. 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.

PROBLEMATIC TEST RESULTS

Sample Status	Value	Unit	Standard	Result	Limit	Limit
Lithium	27	ppm	ASTM D5185(m)	ABNORMAL	---	---

Customer Id: TAVTAV
Sample No.: PC0077108
Lab Number: 02585662
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

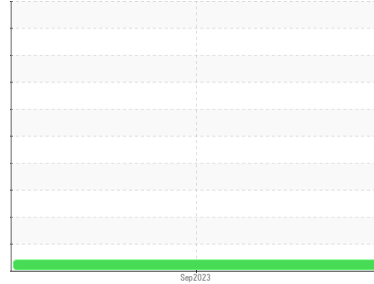
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.

HISTORICAL DIAGNOSIS

Machine Id
SILO #25

Component
Gearbox
Fluid

PETRO CANADA ENDURATEX EP 220 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. 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.

Wear

All component wear rates are normal.

Contamination

Lithium (Li) level abnormal at 27ppm., indicates possible grease contamination.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	PC0077108	---	---
Sample Date	Client Info	11 Sep 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS method limit/base current history1 history2

PQ	ASTM D8184*		9	---	---
Iron	ppm ASTM D5185(m)	>200	149	---	---
Chromium	ppm ASTM D5185(m)	>15	<1	---	---
Nickel	ppm ASTM D5185(m)	>15	<1	---	---
Titanium	ppm ASTM D5185(m)		0	---	---
Silver	ppm ASTM D5185(m)		<1	---	---
Aluminum	ppm ASTM D5185(m)	>25	2	---	---
Lead	ppm ASTM D5185(m)	>100	<1	---	---
Copper	ppm ASTM D5185(m)	>200	1	---	---
Tin	ppm ASTM D5185(m)	>25	0	---	---
Antimony	ppm ASTM D5185(m)	>5	0	---	---
Vanadium	ppm ASTM D5185(m)		0	---	---
Beryllium	ppm ASTM D5185(m)		0	---	---
Cadmium	ppm ASTM D5185(m)		0	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm ASTM D5185(m)	60	3	---	---
Barium	ppm ASTM D5185(m)	0	4	---	---
Molybdenum	ppm ASTM D5185(m)	0	0	---	---
Manganese	ppm ASTM D5185(m)	0	<1	---	---
Magnesium	ppm ASTM D5185(m)	0	1	---	---
Calcium	ppm ASTM D5185(m)	0	11	---	---
Phosphorus	ppm ASTM D5185(m)	270	270	---	---
Zinc	ppm ASTM D5185(m)	0	43	---	---
Sulfur	ppm ASTM D5185(m)	11200	9894	---	---
Lithium	ppm ASTM D5185(m)		▲ 27	---	---

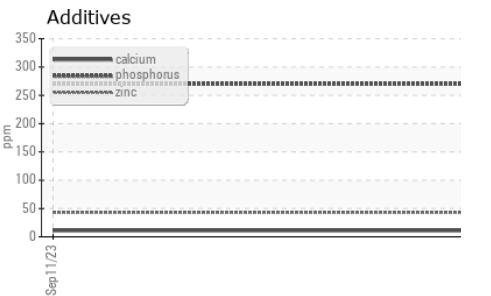
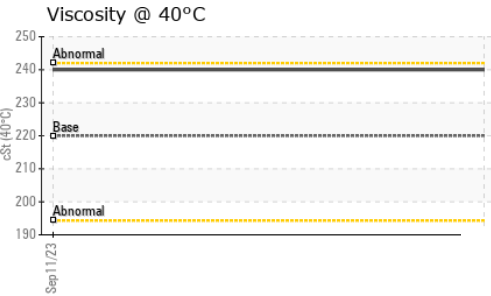
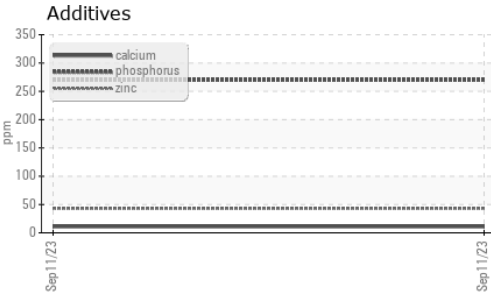
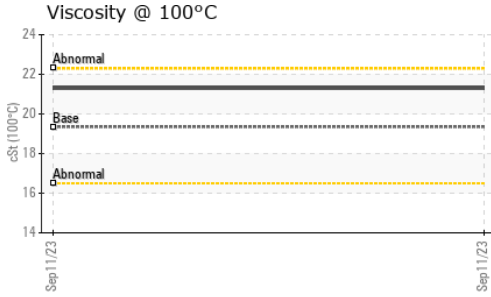
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm ASTM D5185(m)	>50	16	---	---
Sodium	ppm ASTM D5185(m)		2	---	---
Potassium	ppm ASTM D5185(m)	>20	2	---	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g ASTM D974*	0.40	0.35	---	---
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OIL ANALYSIS REPORT



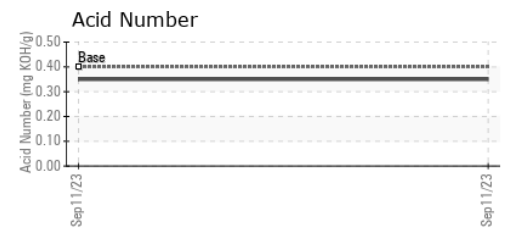
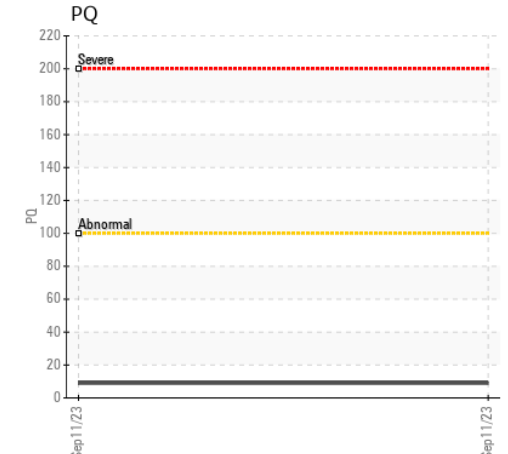
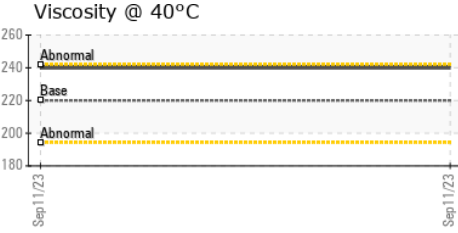
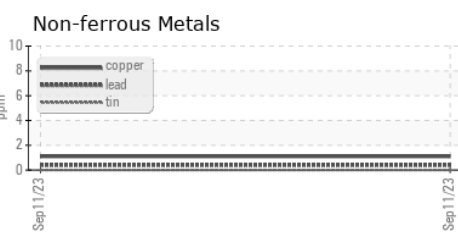
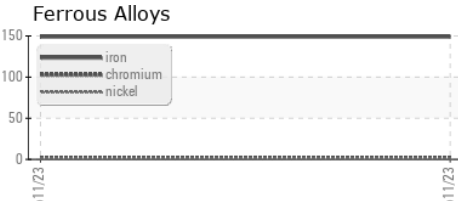
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	240	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.35	21.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	99	105	---

SAMPLE IMAGES

PARAMETER	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0077108 **Received** : 27 Sep 2023
Lab Number : 02585662 **Diagnosed** : 28 Sep 2023
Unique Number : 5646727 **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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