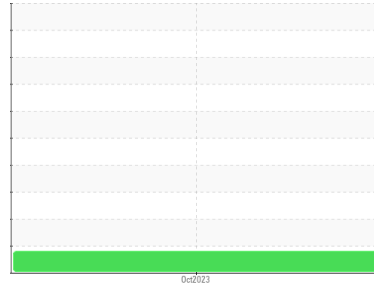


PROBLEM SUMMARY

Sample Rating Trend



ISO



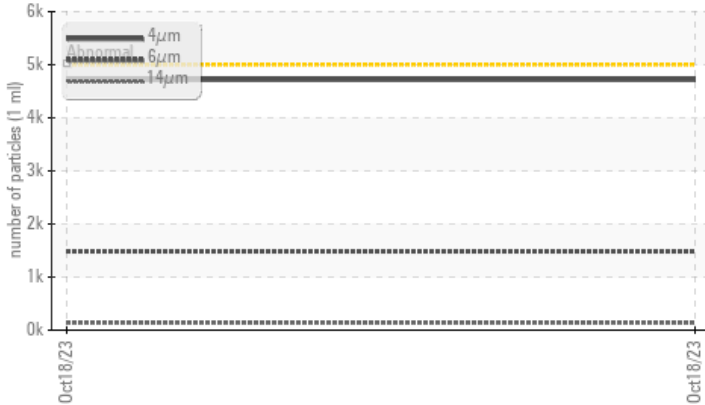
Machine Id
NO UNIT PC412293

Component
Hydraulic System

Fluid
PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS

Sample Status	ATTENTION	---	---
Particles >6µm	ASTM D7647 >1300 ▲ 1485	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14 ▲ 19/18/14	---	---

Customer Id: MAPLET
Sample No.: PC412293
Lab Number: 02590980
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1
(289)291-4641 x4641
Bill.Quesnel@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 Filter	---	---	?	We recommend you service the filters on this component.
Alert	---	---	?	The fluid was specified as PETRO CANADA PURITY FG AW HYDRAULIC 46, however, a fluid match indicates that this fluid is ISO 46 Hydraulic Oil (Food Grade). Please confirm the oil type and grade on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.
Information Required	---	---	?	
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.

HISTORICAL DIAGNOSIS



Machine Id
NO UNIT PC412293

Component
Hydraulic System

Fluid
PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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	PC412293	---	---
Sample Date	Client Info	18 Oct 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	<1	---	---
Chromium ppm ASTM D5185(m)	>10	0	---	---
Nickel ppm ASTM D5185(m)	>10	0	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		<1	---	---
Aluminum ppm ASTM D5185(m)	>10	<1	---	---
Lead ppm ASTM D5185(m)	>10	0	---	---
Copper ppm ASTM D5185(m)	>75	<1	---	---
Tin ppm ASTM D5185(m)	>10	0	---	---
Antimony ppm ASTM D5185(m)		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)	0	<1	---	---
Barium ppm ASTM D5185(m)	0	<1	---	---
Molybdenum ppm ASTM D5185(m)	0	0	---	---
Manganese ppm ASTM D5185(m)	0	0	---	---
Magnesium ppm ASTM D5185(m)	0	0	---	---
Calcium ppm ASTM D5185(m)	0	0	---	---
Phosphorus ppm ASTM D5185(m)	450	401	---	---
Zinc ppm ASTM D5185(m)	0	2	---	---
Sulfur ppm ASTM D5185(m)	450	437	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>20	2	---	---
Sodium ppm ASTM D5185(m)		0	---	---
Potassium ppm ASTM D5185(m)	>20	0	---	---

FLUID CLEANLINESS

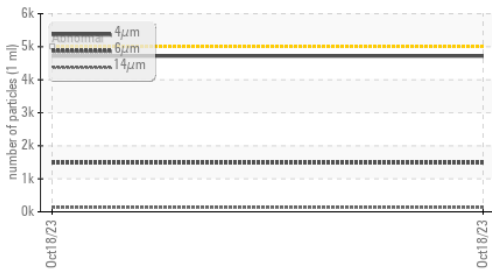
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	4718	---	---
Particles >6µm ASTM D7647	>1300	▲ 1485	---	---
Particles >14µm ASTM D7647	>160	133	---	---
Particles >21µm ASTM D7647	>40	38	---	---
Particles >38µm ASTM D7647	>10	4	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 19/18/14	---	---

FLUID DEGRADATION

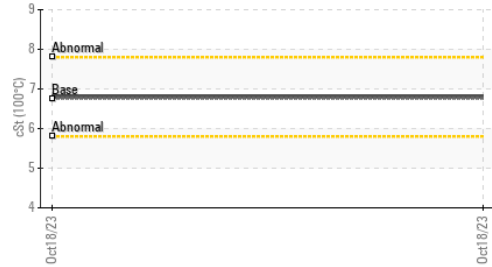
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*	0.26	0.14	---	---

OIL ANALYSIS REPORT

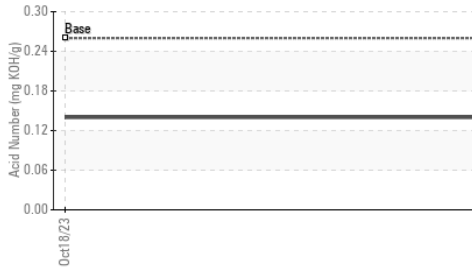
▲ Particle Trend



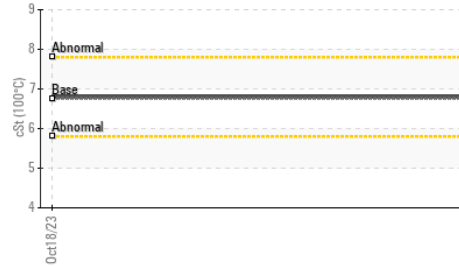
● Viscosity @ 100°C



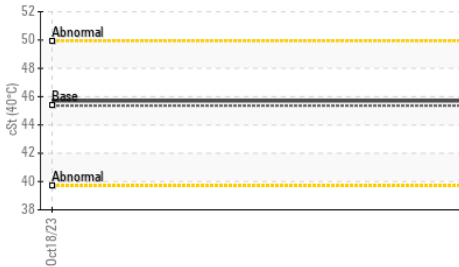
● Acid Number



● Viscosity @ 100°C



● Viscosity @ 40°C



VISUAL	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	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	45.36	45.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	6.762	6.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	102	102	---	---

SAMPLE IMAGES

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

GRAPHS

Ferrous Alloys



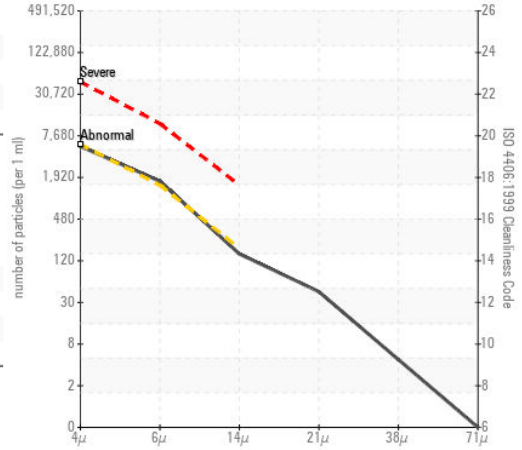
Non-ferrous Metals



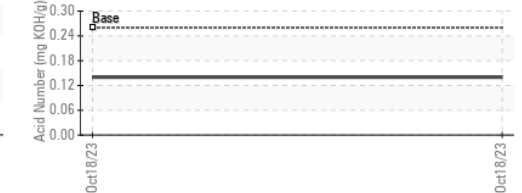
Viscosity @ 40°C



▲ Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC412293 **Received** : 23 Oct 2023
Lab Number : 02590980 **Diagnosed** : 24 Oct 2023
Unique Number : 5668059 **Diagnostician** : Bill Quesnel
Test Package : IND 2 (Additional Tests: KV100, VI)

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 LETHBRIDGE, AB
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 F: (403)328-5262

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.