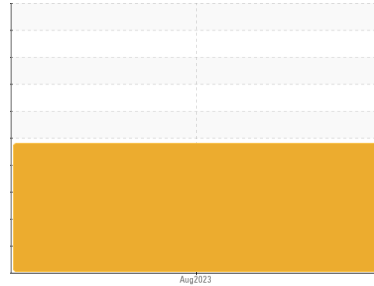




PROBLEM SUMMARY

Area
[101288]
 Machine Id
M-700
 Component
Hydraulic System
 Fluid
PETRO CANADA PURITY FG AW HYDRAULIC 32 (10 GAL)

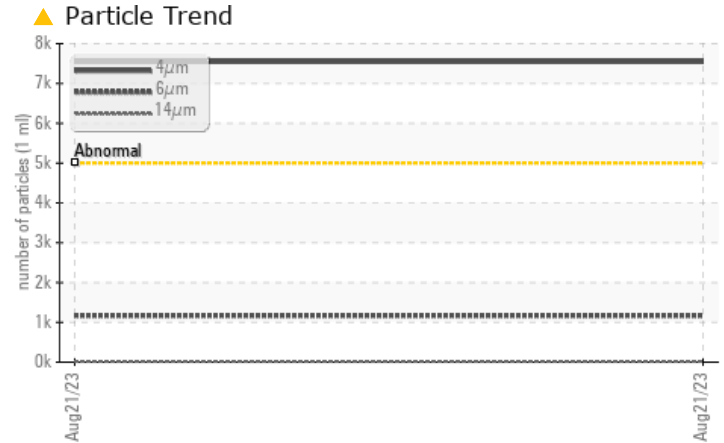
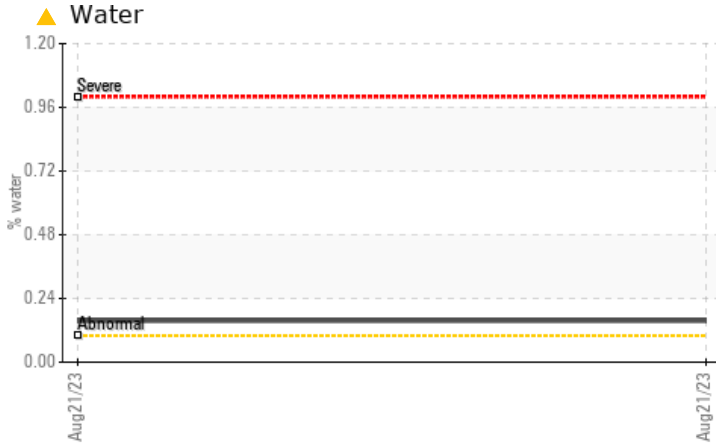
Sample Rating Trend



WATER



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Water	%	ASTM D6304*	>0.1	▲ 0.156	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 1565.5	---	---
Particles >4µm		ASTM D7647	>5000	▲ 7545	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/17/11	---	---
Appearance	scalar	Visual*	NORML	▲ LAYRD	---	---
Emulsified Water	scalar	Visual*	>0.1	▲ .5%	---	---
Free Water	scalar	Visual*		▲ >10%	---	---

Customer Id: GRA685CAM
 Sample No.: WC0850426
 Lab Number: 02578097
 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.
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the component make and model with your next sample.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

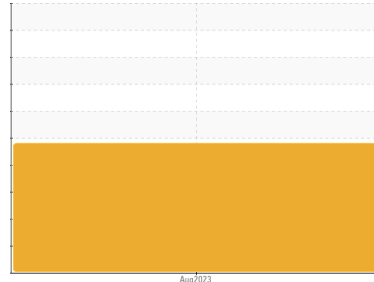
WATER



Area
[101288]
Machine Id
M-700

Component
Hydraulic System
Fluid

PETRO CANADA PURITY FG AW HYDRAULIC 32 (10 GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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. There is a moderate concentration of water present in the oil. Excessive free water present.

Fluid Condition

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	WC0850426	---	---
Sample Date	Client Info	21 Aug 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
Iron ppm ASTM D5185(m)	>20	6	---	---
Chromium ppm ASTM D5185(m)	>10	0	---	---
Nickel ppm ASTM D5185(m)	>10	<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
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)		<1	---	---
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)		<1	---	---
Barium ppm ASTM D5185(m)		0	---	---
Molybdenum ppm ASTM D5185(m)		0	---	---
Manganese ppm ASTM D5185(m)		0	---	---
Magnesium ppm ASTM D5185(m)		<1	---	---
Calcium ppm ASTM D5185(m)		3	---	---
Phosphorus ppm ASTM D5185(m)		302	---	---
Zinc ppm ASTM D5185(m)		6	---	---
Sulfur ppm ASTM D5185(m)		271	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

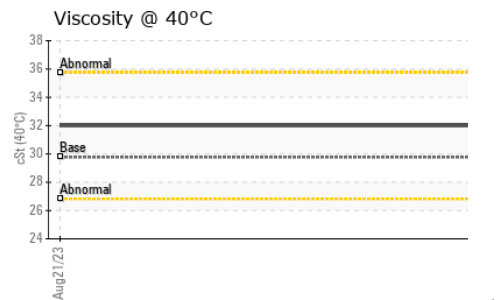
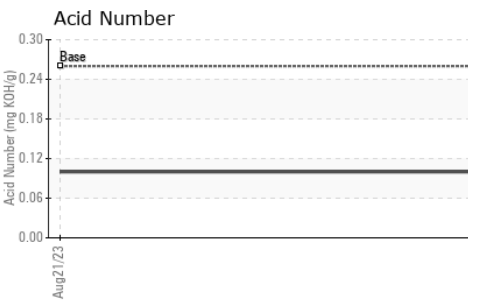
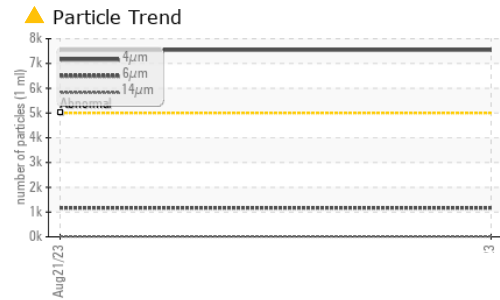
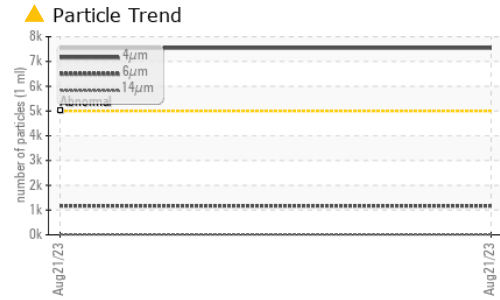
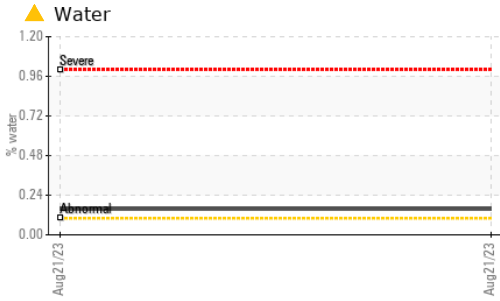
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>20	2	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	<1	---	---
Water % ASTM D6304*	>0.1	▲ 0.156	---	---
ppm Water ppm ASTM D6304*	>1000	▲ 1565.5	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	▲ 7545	---	---
Particles >6µm ASTM D7647	>1300	1168	---	---
Particles >14µm ASTM D7647	>160	18	---	---
Particles >21µm ASTM D7647	>40	3	---	---
Particles >38µm ASTM D7647	>10	0	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 20/17/11	---	---



OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.26	0.10	---	---

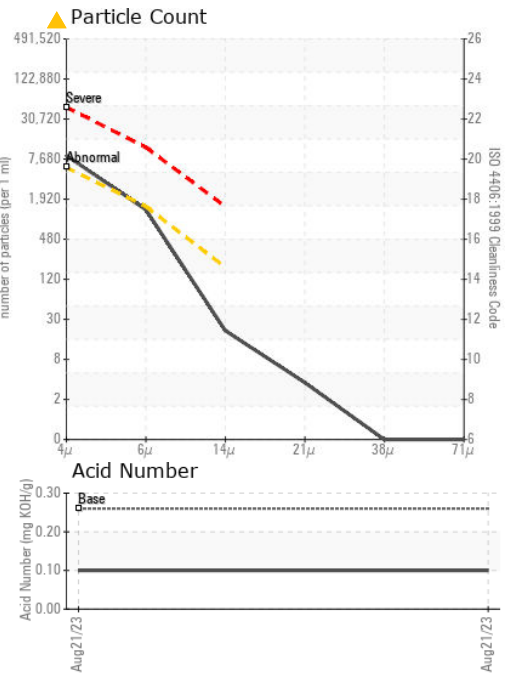
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	LAYRD	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	0.5%	---	---
Free Water	scalar	Visual*		>10%	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	29.77	32.0	---	---

SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				<i>no image</i>	<i>no image</i>
Bottom				<i>no image</i>	<i>no image</i>

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0850426 Received : 24 Aug 2023
 Lab Number : 02578097 Diagnosed : 28 Aug 2023
 Unique Number : 5631157 Diagnostician : Kevin Marson
 Test Package : IND 2 (Additional Tests: KF)

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 CAMBRIDGE, ON
 CA N3E 1B8
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 djeanmarie@grandriverfoods.com
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 F:

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.