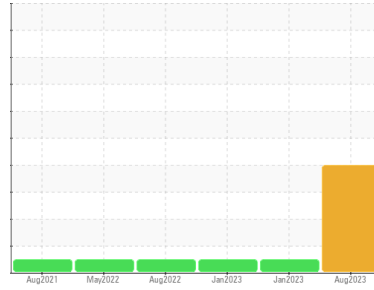


PROBLEM SUMMARY

Sample Rating Trend

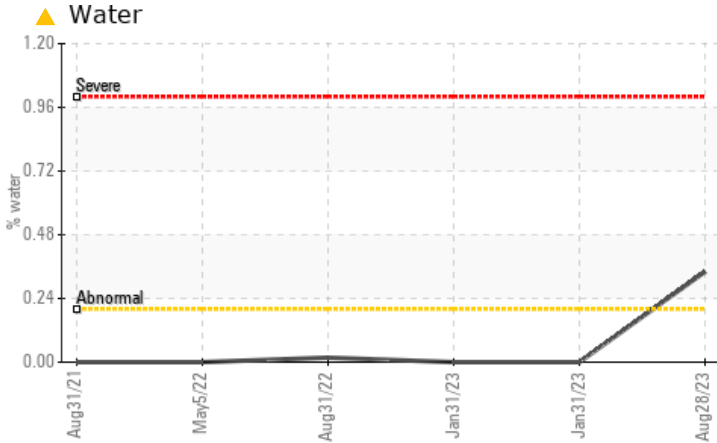


WATER



Machine Id
2008016 POCKET FREEZER #1 (S/N 87.7969760101)
Component
Gearbox
Fluid
PETRO CANADA PURITY FG EP GEAR OIL 220 (60 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition. NOTE: Test values may be askew due high concentration of free water present in sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Water	%	ASTM D6304*	>0.2	▲ 0.341	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 3410.9	---	---
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	NEG	NEG
Free Water	scalar	Visual*		▲ 1%	NEG	NEG

Customer Id: MCCFLO
Sample No.: PC0058596
Lab Number: 02581034
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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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
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	NOTE: Test values may be askew due high concentration of free water present in sample.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.
Filter Fluid	---	---	?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.

HISTORICAL DIAGNOSIS

31 Jan 2023 Diag: Wes Davis

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



31 Jan 2023 Diag: Wes Davis

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



31 Aug 2022 Diag: Kevin Marson

NORMAL

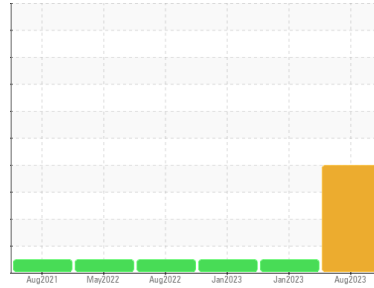


Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Machine Id
20008016 POCKET FREEZER #1 (S/N 87.7969760101)
Component
Gearbox
Fluid
PETRO CANADA PURITY FG EP GEAR OIL 220 (60 LTR)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition. NOTE: Test values may be askew due high concentration of free water present in sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil. Free water present.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0058596	PC0058614	PC0058604
Sample Date	Client Info	28 Aug 2023	31 Jan 2023	31 Jan 2023
Machine Age	hrs	6000	200	4800
Oil Age	hrs	6000	200	4800
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	10	10	9
Iron	ppm ASTM D5185(m) >200	18	14	12
Chromium	ppm ASTM D5185(m) >15	0	0	0
Nickel	ppm ASTM D5185(m) >15	0	<1	<1
Titanium	ppm ASTM D5185(m)	0	0	2
Silver	ppm ASTM D5185(m)	0	0	0
Aluminum	ppm ASTM D5185(m) >25	<1	<1	<1
Lead	ppm ASTM D5185(m) >100	0	0	0
Copper	ppm ASTM D5185(m) >200	<1	0	6
Tin	ppm ASTM D5185(m) >25	0	0	<1
Antimony	ppm ASTM D5185(m) >5	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
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)	12	15	<1
Barium	ppm ASTM D5185(m)	0	0	0
Molybdenum	ppm ASTM D5185(m)	0	0	<1
Manganese	ppm ASTM D5185(m)	<1	<1	<1
Magnesium	ppm ASTM D5185(m)	<1	<1	<1
Calcium	ppm ASTM D5185(m)	17	17	<1
Phosphorus	ppm ASTM D5185(m) 135	194	213	415
Zinc	ppm ASTM D5185(m)	7	3	5
Sulfur	ppm ASTM D5185(m) 660	4078	4247	1013
Lithium	ppm ASTM D5185(m)	13	11	3

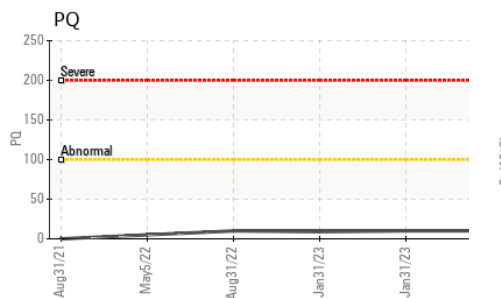
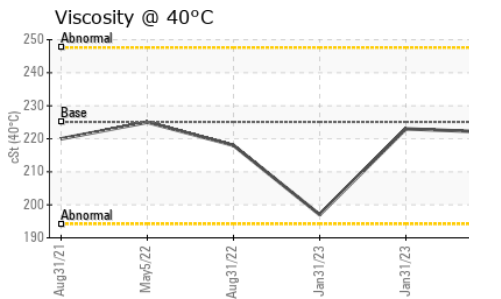
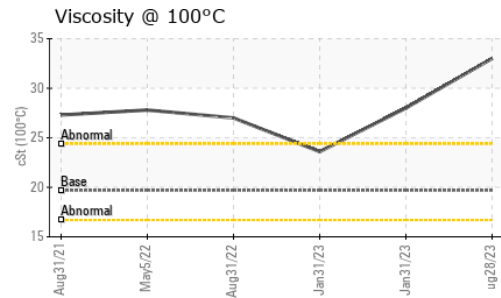
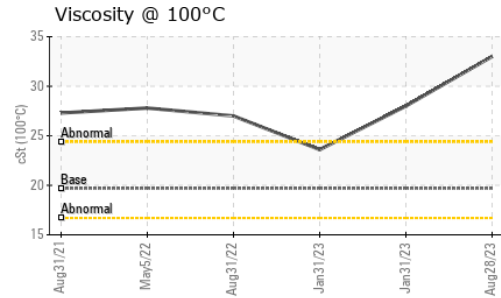
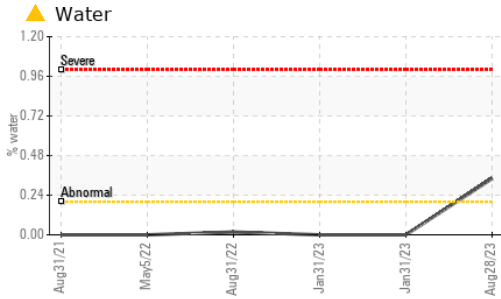
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	4	3	10
Sodium	ppm ASTM D5185(m)	4	1	<1
Potassium	ppm ASTM D5185(m) >20	<1	0	0
Water	% ASTM D6304* >0.2	▲ 0.341	---	---
ppm Water	ppm ASTM D6304* >2000	▲ 3410.9	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.50	0.54	0.55	0.42

OIL ANALYSIS REPORT



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	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	225.1	223	197
Visc @ 100°C	cSt	ASTM D7279(m)	19.69	28.0	23.6
Viscosity Index (VI)	Scale	ASTM D2270*	100	162	147

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0058596
Lab Number : 02581034
Unique Number : 5642099
Test Package : IND 2 (Additional Tests: KF, 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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