

Machine Id
20007969 (S/N A147-2)
Component
Gearbox
Fluid
PETRO CANADA PURITY FG SYN GEAR ISO 220 (30 LTR)

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 recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

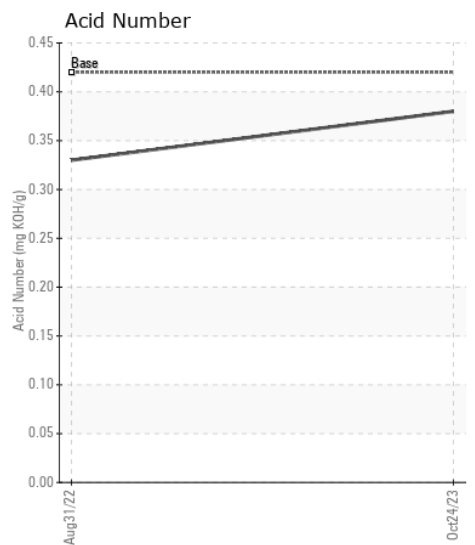
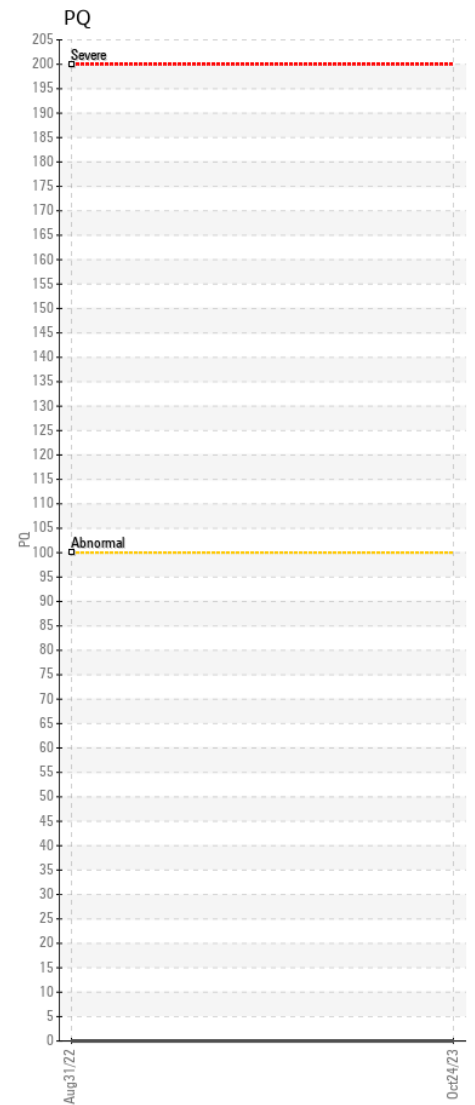
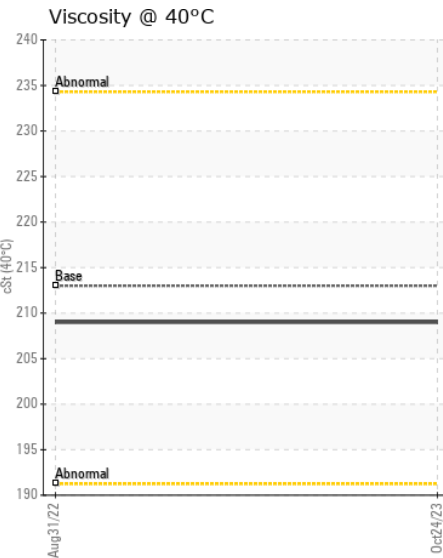
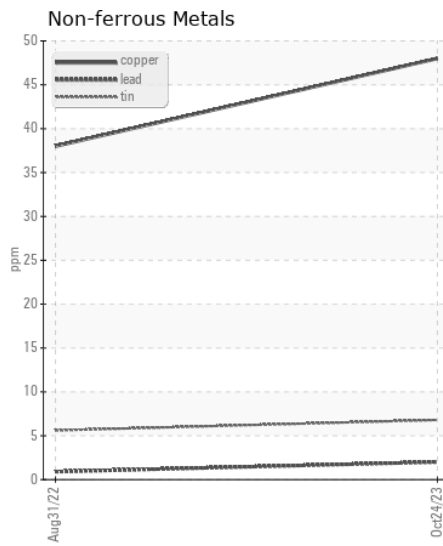
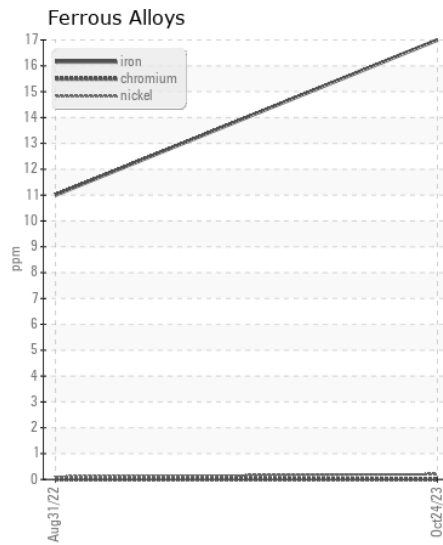
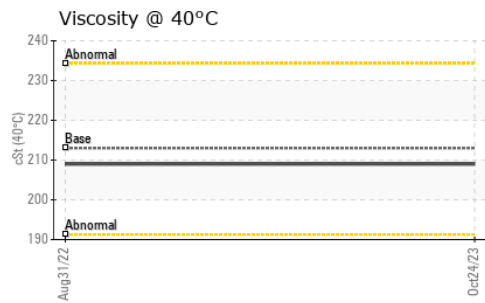
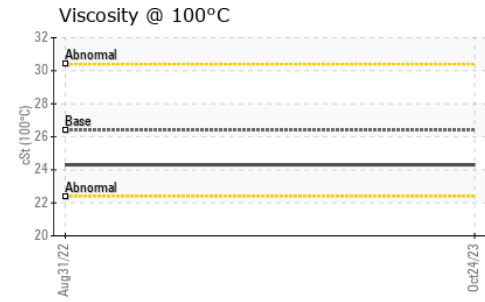
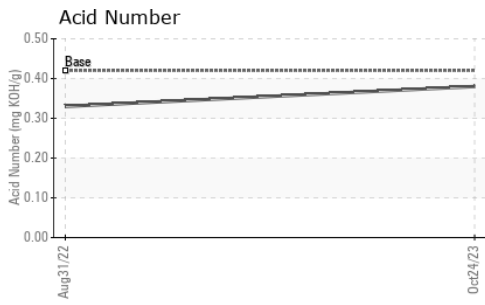
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0058598	PC0058609	---
Sample Date		Client Info		24 Oct 2023	31 Aug 2022	---
Machine Age	hrs	Client Info		23000	114000	---
Oil Age	hrs	Client Info		5000	28000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---
PQ		ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m)	>200	17	11	---
Chromium	ppm	ASTM D5185(m)	>15	0	0	---
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		<1	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	---
Lead	ppm	ASTM D5185(m)	>100	2	<1	---
Copper	ppm	ASTM D5185(m)	>200	48	38	---
Tin	ppm	ASTM D5185(m)	>25	7	6	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>50	1	2	---
Potassium	ppm	ASTM D5185(m)	>20	0	0	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Boron	ppm	ASTM D5185(m)		6	4	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		<1	<1	---
Calcium	ppm	ASTM D5185(m)		114	85	---
Phosphorus	ppm	ASTM D5185(m)		513	516	---
Zinc	ppm	ASTM D5185(m)		1	1	---
Sulfur	ppm	ASTM D5185(m)		895	603	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.42	0.38	0.33	---
Visc @ 40°C	cSt	ASTM D7279(m)	213	209	209	---
Visc @ 100°C	cSt	ASTM D7279(m)	26.4	24.3	24.3	---
Viscosity Index (VI)	Scale	ASTM D2270*	158	144	144	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0058598
Lab Number : 02592490
Unique Number : 5669569
Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI)

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Received : 27 Oct 2023
 Tested : 27 Oct 2023
 Diagnosed : 30 Oct 2023 - Kevin Marson
 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.