



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
Fuel Oil Separator (S/N 4231834)
 Component
Gearbox
 Fluid
PETRO CANADA ENDURATEX EP 220 (1 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0844543	WC0750132	---
Sample Date		Client Info		10 Feb 2024	07 Aug 2023	---
Machine Age	hrs	Client Info		42855	41275	---
Oil Age	hrs	Client Info		2000	100	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	Not Changed	---
Sample Status				NORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	53	149	---
Chromium	ppm	ASTM D5185(m)	>10	<1	1	---
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>5	2	3	---
Lead	ppm	ASTM D5185(m)	>65	2	8	---
Copper	ppm	ASTM D5185(m)	>80	65	▲ 142	---
Tin	ppm	ASTM D5185(m)	>8	4	▲ 15	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	▲ LTMOD	---
Yellow Metal	scalar	Visual*	NONE	VLITE	VLITE	---

CONTAMINATION

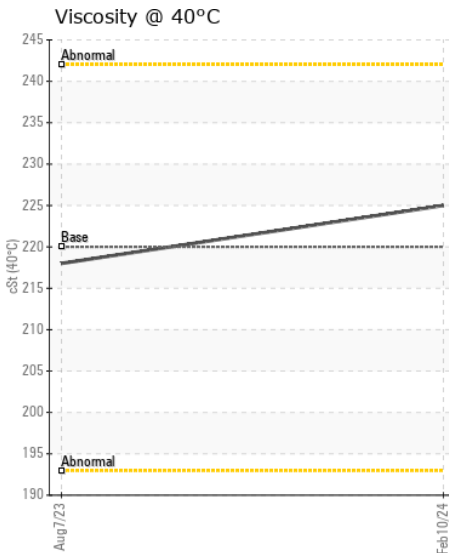
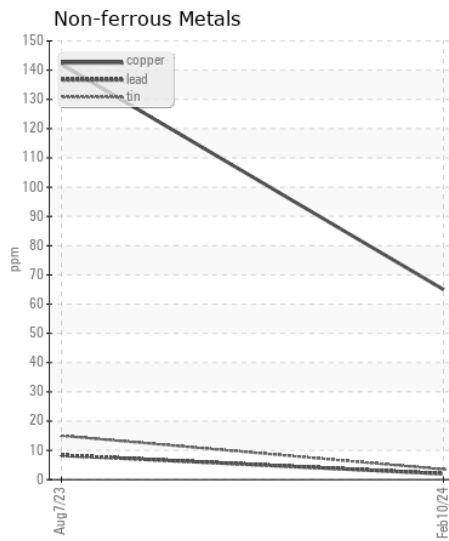
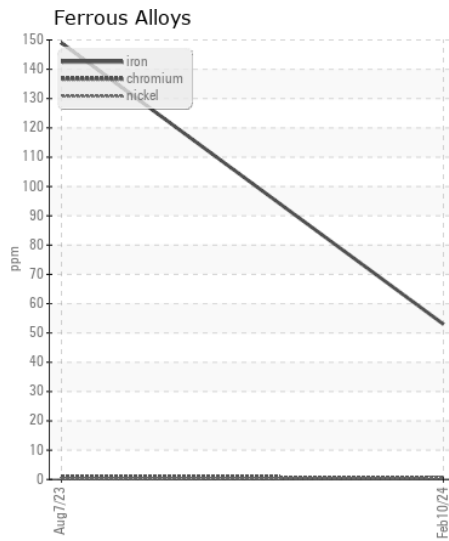
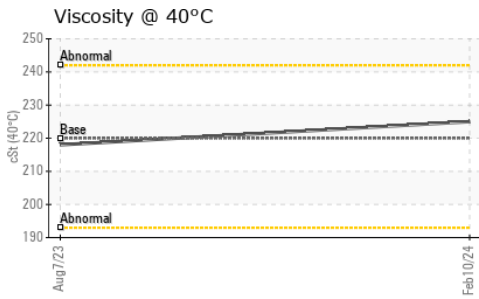
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	▲ 147	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	VLITE	---
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	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	2	---
Boron	ppm	ASTM D5185(m)	60	4	33	---
Barium	ppm	ASTM D5185(m)	0	0	4	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	0	---
Manganese	ppm	ASTM D5185(m)	0	0	1	---
Magnesium	ppm	ASTM D5185(m)	0	<1	1	---
Calcium	ppm	ASTM D5185(m)	0	2	10	---
Phosphorus	ppm	ASTM D5185(m)	270	263	284	---
Zinc	ppm	ASTM D5185(m)	0	11	8	---
Sulfur	ppm	ASTM D5185(m)	11200	4210	5175	---
Visc @ 40°C	cSt	ASTM D7279(m)	220	225	218	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0844543
Lab Number : 02619066
Unique Number : 5736176
Test Package : MAR 1
Received : 29 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Wes Davis

CANADIAN COAST GUARD
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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.