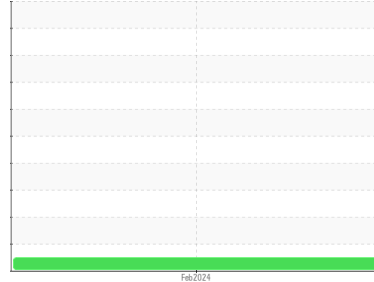


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
GEARBOX A FIREWATER PUMP G/B HORIZONTAL

Component
Gearbox

Fluid
PETRO CANADA TURBOFLO R&O 220 (100 mL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination 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	PC0080293	---	---
Sample Date	Client Info	18 Feb 2024	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	---	---
Iron	ppm ASTM D5185(m) >150	8	---	---
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)	0	---	---
Aluminum	ppm ASTM D5185(m) >5	<1	---	---
Lead	ppm ASTM D5185(m) >65	2	---	---
Copper	ppm ASTM D5185(m) >80	<1	---	---
Tin	ppm ASTM D5185(m) >8	0	---	---
Antimony	ppm ASTM D5185(m) >5	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)	1	---	---
Barium	ppm ASTM D5185(m)	0	---	---
Molybdenum	ppm ASTM D5185(m)	0	---	---
Manganese	ppm ASTM D5185(m)	0	---	---
Magnesium	ppm ASTM D5185(m)	0	---	---
Calcium	ppm ASTM D5185(m) 0	1	---	---
Phosphorus	ppm ASTM D5185(m) 4	14	---	---
Zinc	ppm ASTM D5185(m) 0	2	---	---
Sulfur	ppm ASTM D5185(m)	1501	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

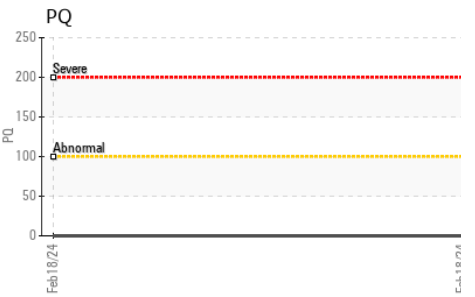
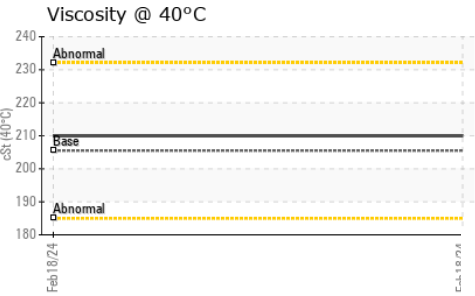
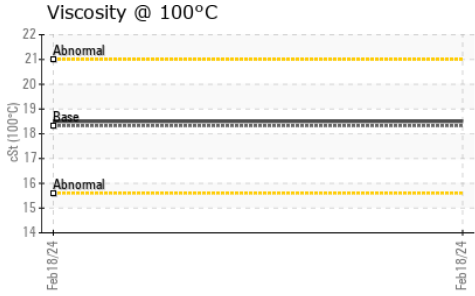
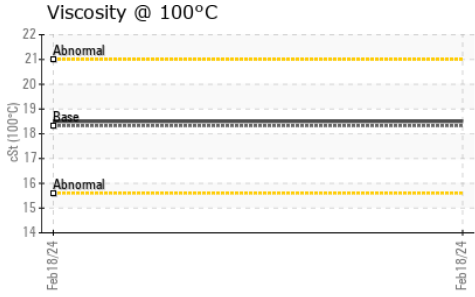
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<1	---	---
Sodium	ppm ASTM D5185(m)	0	---	---
Potassium	ppm ASTM D5185(m) >20	<1	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.17	0.17	---	---

OIL ANALYSIS REPORT



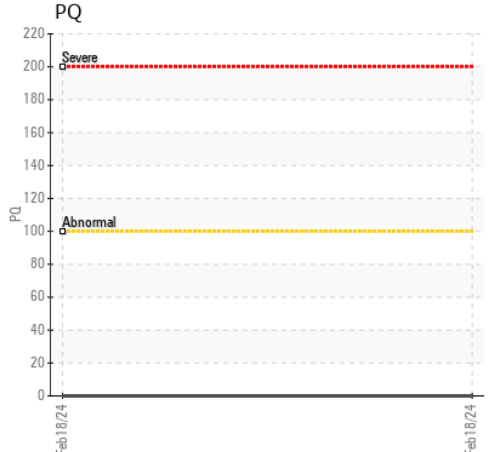
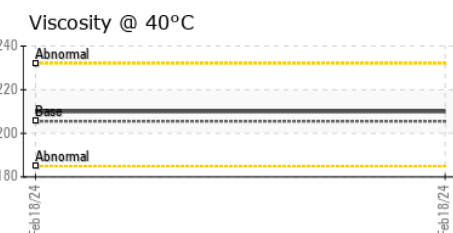
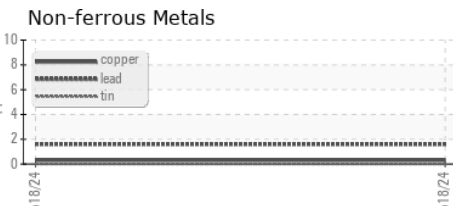
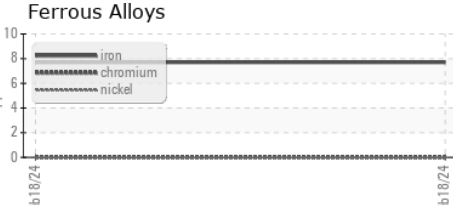
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	205.5	210	---
Visc @ 100°C	cSt	ASTM D7279(m)	18.32	18.5	---
Viscosity Index (VI)	Scale	ASTM D2270*	98	97	---

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080293 **Received** : 21 Feb 2024
Lab Number : 02617234 **Tested** : 23 Feb 2024
Unique Number : 5734344 **Diagnosed** : 23 Feb 2024 - Kevin Marson
Test Package : MAR 2 (Additional Tests: KV100, VI)

Suncor - Terra Nova Projects
 Scotia Centre, 235 Water Strret
 St. John's, NL
 CA A1C 1B6
 Contact: Josh Hynes
 joshhynes@suncor.com
 T: (709)778-3575
 F: (709)724-2835

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.