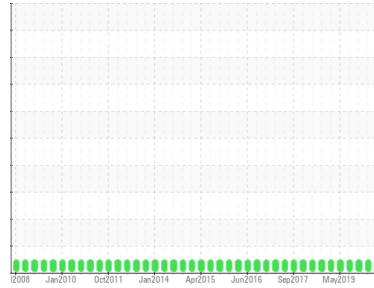


Area
TEAM 3
Machine Id
165170 GEARCASE
Component
Gearbox
Fluid
PETRO CANADA TURBOFLO R&O 220 (16 GAL)



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	PC0070414	PC0022495	CB0027721
Sample Date	Client Info	08 Aug 2023	02 Mar 2020	26 Nov 2019
Machine Age	mths Client Info	0	0	0
Oil Age	mths Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS method limit/base current history1 history2

PQ	ASTM D8184*		0	5	5
Iron	ppm ASTM D5185(m)	>200	<1	<1	<1
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	0
Silver	ppm ASTM D5185(m)		0	0	0
Aluminum	ppm ASTM D5185(m)	>25	<1	0	0
Lead	ppm ASTM D5185(m)	>100	0	0	0
Copper	ppm ASTM D5185(m)	>200	0	0	0
Tin	ppm ASTM D5185(m)	>25	0	0	0
Antimony	ppm ASTM D5185(m)	>5	0	<1	<1
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)		<1	<1	<1
Barium	ppm ASTM D5185(m)		0	<1	<1
Molybdenum	ppm ASTM D5185(m)		0	0	0
Manganese	ppm ASTM D5185(m)		0	0	0
Magnesium	ppm ASTM D5185(m)		0	0	0
Calcium	ppm ASTM D5185(m)	0	1	<1	<1
Phosphorus	ppm ASTM D5185(m)	4	9	4	<1
Zinc	ppm ASTM D5185(m)	0	3	1	<1
Sulfur	ppm ASTM D5185(m)		1130	5511	4967
Lithium	ppm ASTM D5185(m)		<1	<1	<1

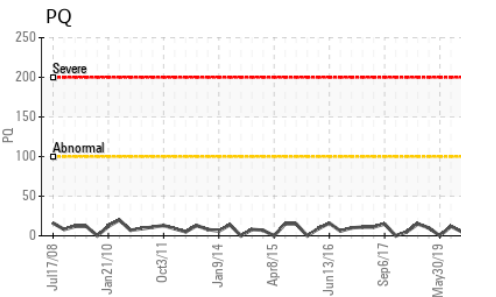
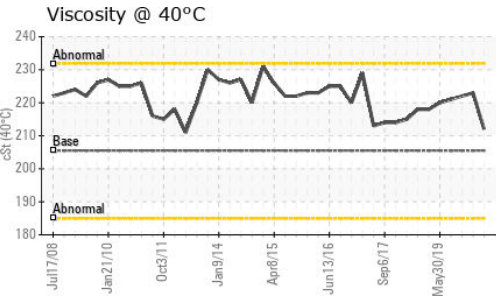
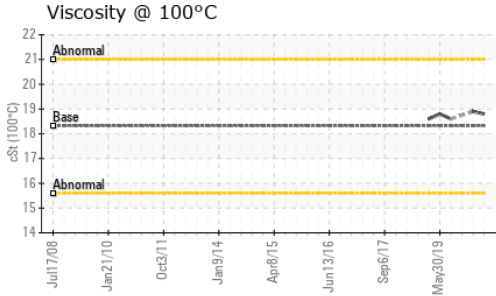
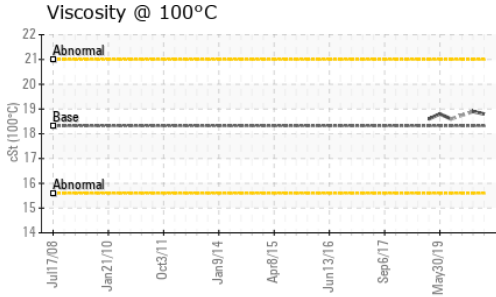
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm ASTM D5185(m)	>50	<1	1	<1
Sodium	ppm ASTM D5185(m)		0	0	0
Potassium	ppm ASTM D5185(m)	>20	<1	0	0

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g ASTM D974*	0.17	0.09	0.106	0.065
------------------	---------------------	------	-------------	-------	-------

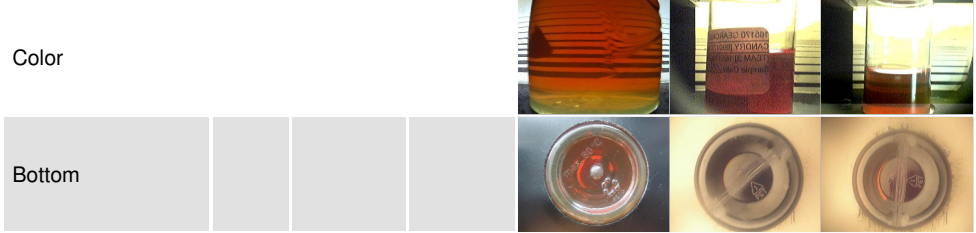
OIL ANALYSIS REPORT



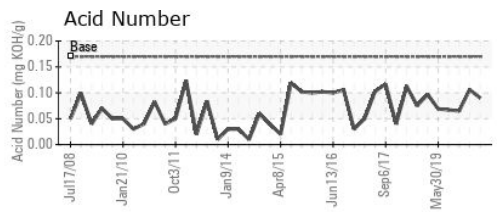
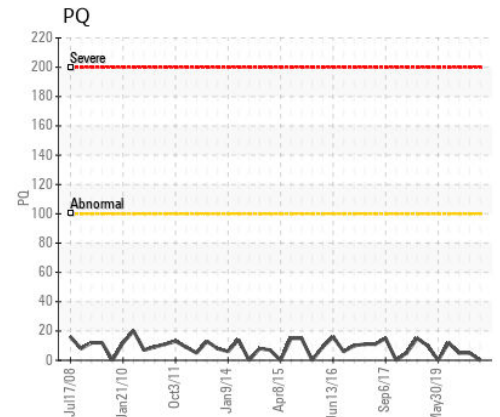
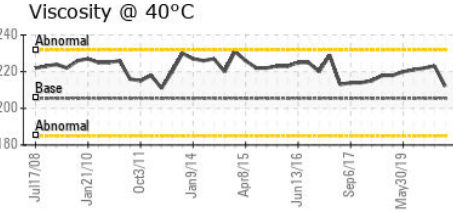
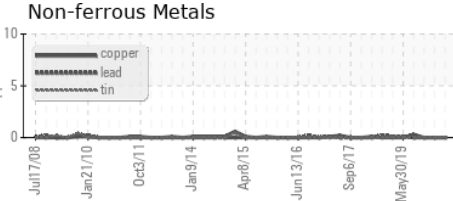
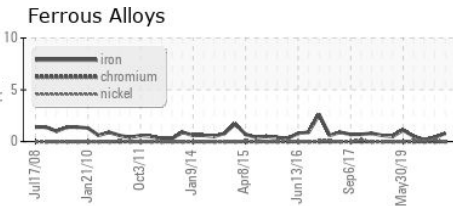
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	205.5	212	223
Visc @ 100°C	cSt	ASTM D7279(m)	18.32	18.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	98	98	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0070414 **Received** : 17 Aug 2023
Lab Number : 02576564 **Diagnosed** : 21 Aug 2023
Unique Number : 5629624 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: KV100, VI)

Dryden Fibre
 Box 3001, 1 Duke Street
 Dryden, ON
 CA P8N 2Z7
 Contact: Yvon St. Laurent
 yvon.stlaurent@domtar.com
 T: (807)223-9838
 F: (807)223-9176

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.