



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Engine room

Machine Id

G5-21471 PORT PROPULSION GEN

Component

Bearing

Fluid

PETRO CANADA TURBOFLO R&O 68 (225 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0855457	WC0772085	WC0700684
Sample Date		Client Info		12 May 2024	13 Nov 2023	28 Apr 2023
Machine Age	yrs	Client Info		648	53	0
Oil Age	yrs	Client Info		0	0	0
Filter Age	yrs	Client Info		2	8	2
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	0	0	0
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	0	0	0
Lead	ppm	ASTM D5185(m)	>20	2	3	2
Copper	ppm	ASTM D5185(m)	>20	<1	<1	0
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

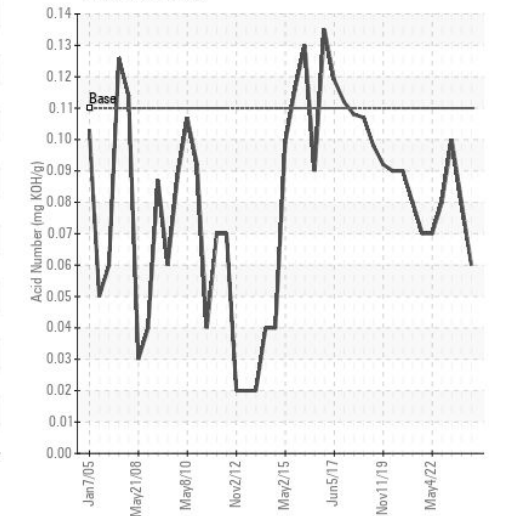
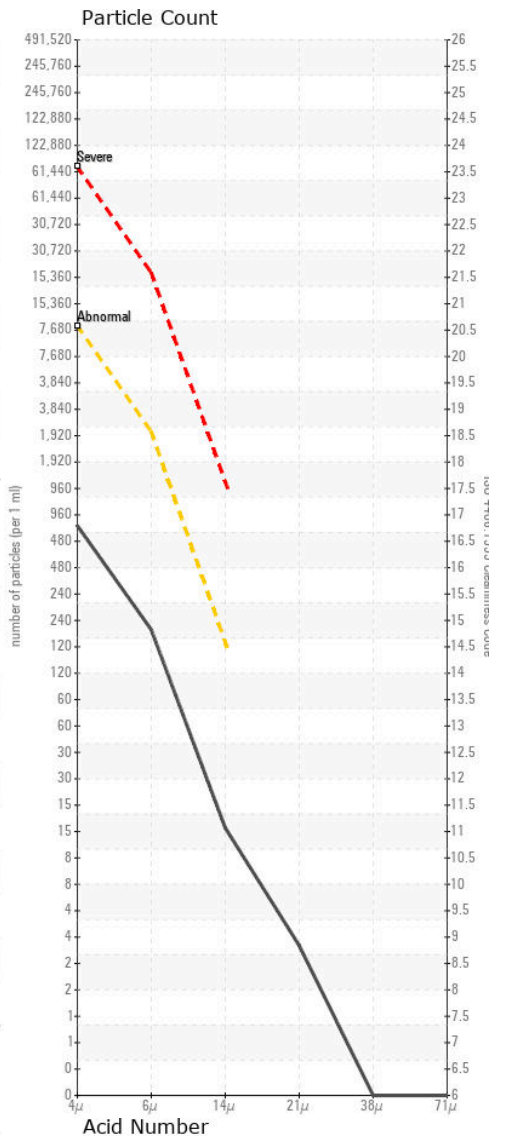
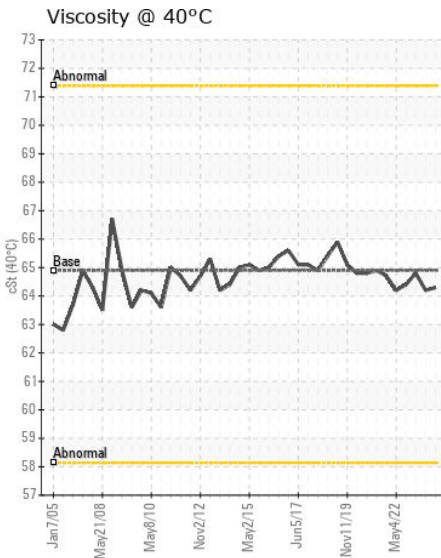
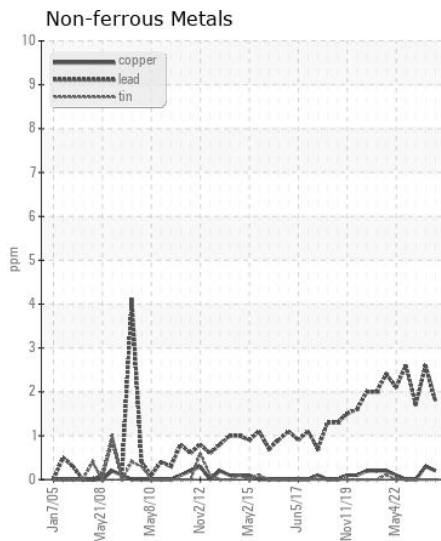
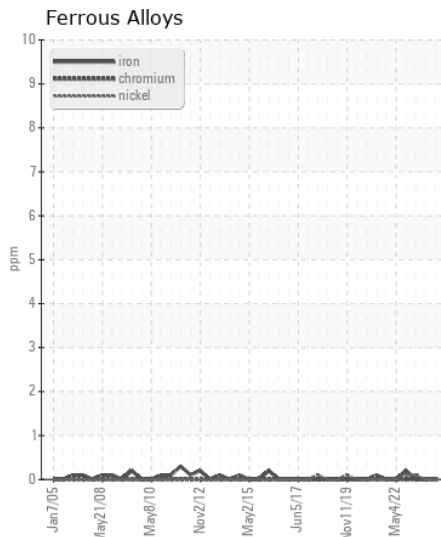
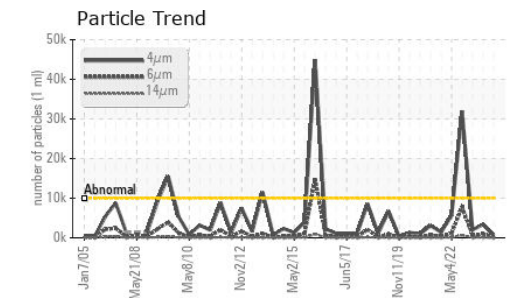
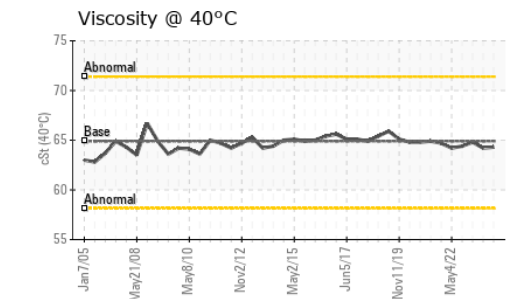
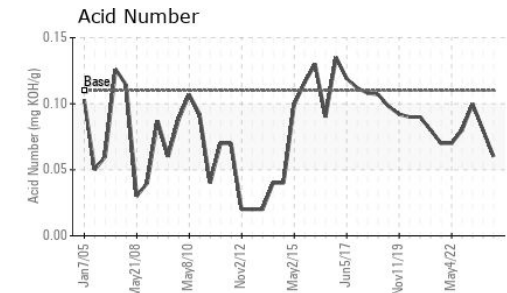
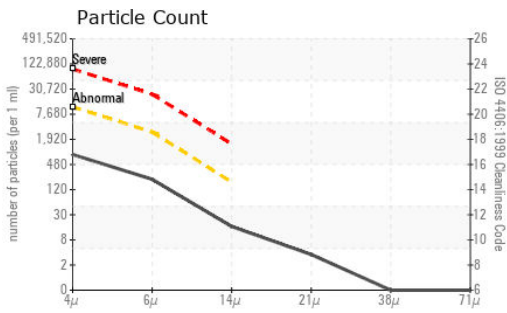
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>15	0	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
Water		WC Method	>2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	730	3378	2015
Particles >6µm		ASTM D7647	>2500	187	1006	489
Particles >14µm		ASTM D7647	>160	14	95	49
Particles >21µm		ASTM D7647	>40	3	24	15
Particles >38µm		ASTM D7647	>10	0	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	17/15/11	19/17/14	18/16/13
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		5	5	5
Boron	ppm	ASTM D5185(m)		0	<1	0
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		1	1	<1
Calcium	ppm	ASTM D5185(m)	0	1	1	0
Phosphorus	ppm	ASTM D5185(m)	4	7	7	8
Zinc	ppm	ASTM D5185(m)	0	4	4	3
Sulfur	ppm	ASTM D5185(m)		123	125	127
Acid Number (AN)	mg KOH/g	ASTM D974*	0.11	0.06	0.08	0.10
Visc @ 40°C	cSt	ASTM D7279(m)	64.9	64.3	64.2	64.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0855457
Lab Number : 02637494
Unique Number : 5786656
Test Package : MAR 2 (Additional Tests: TAN Man)
Received : 24 May 2024
Tested : 27 May 2024
Diagnosed : 27 May 2024 - Wes Davis

CANADIAN COAST GUARD
 CCGS GRIFFON, PO BOX 1000, 401 KING ST.W
 Prescott, ON
 CA K6V 5T3
 Contact: Laurie Bosley
 Laurie.Bosley@dfo-mpo.gc.ca
 T:
 F: (519)383-1994

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.