



OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL

Area
[1846410]
 Machine Id
UNIT1 GEN THRUST BEARING
 Component
Thrust Bearing
 Fluid
PETRO CANADA TURBOFLO XL46 (5556 LTR)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

Wear

Light concentration of visible metal present.

Contamination

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

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	WC0412133	---	---
Sample Date	Client Info	15 Oct 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		MARGINAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >2	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >85	<1	---	---
Chromium	ppm ASTM D5185(m) >20	0	---	---
Nickel	ppm ASTM D5185(m) >20	0	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m)	0	---	---
Aluminum	ppm ASTM D5185(m) >40	<1	---	---
Lead	ppm ASTM D5185(m) >60	0	---	---
Copper	ppm ASTM D5185(m) >7	<1	---	---
Tin	ppm ASTM D5185(m) >40	<1	---	---
Antimony	ppm ASTM D5185(m)	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)	0	---	---
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)	<1	---	---
Phosphorus	ppm ASTM D5185(m)	2	---	---
Zinc	ppm ASTM D5185(m) 0	1	---	---
Sulfur	ppm ASTM D5185(m)	668	---	---
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	---	---

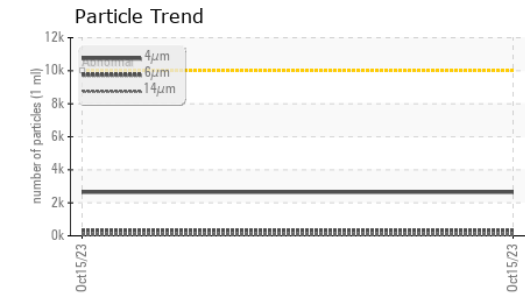
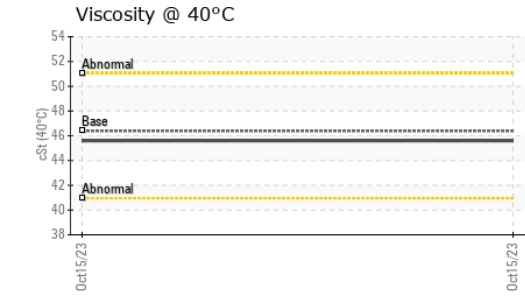
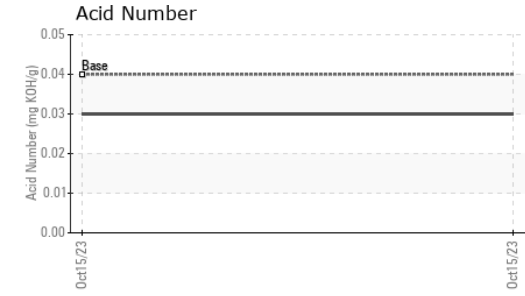
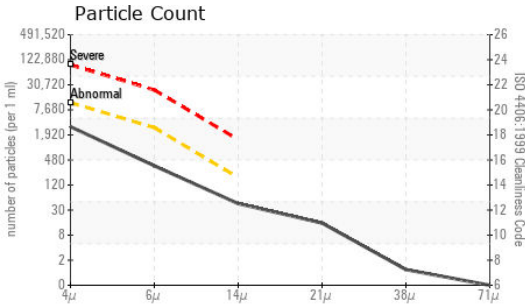
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	2645	---	---
Particles >6µm	ASTM D7647 >2500	306	---	---
Particles >14µm	ASTM D7647 >160	38	---	---
Particles >21µm	ASTM D7647 >40	13	---	---
Particles >38µm	ASTM D7647 >10	1	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/14	19/15/12	---	---





OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
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Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	0.03	---	---
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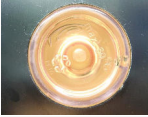

VISUAL	method	limit/base	current	history1	history2
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White Metal	scalar	Visual*	NONE	▲ VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
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Visc @ 40°C	cSt	ASTM D7279(m)	46.39	45.6	---	---
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SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					no image	no image
Bottom					no image	no image
PrtFilter					no image	no image



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0412133
Lab Number : **02609413**
Unique Number : 5710499
Test Package : IND 2 (Additional Tests: BottomAnalysis, FilterPatch, PrtFilter)

MUSKRAT FALLS CORPORATION
 19-21 BURNWOOD DRIVE
 HAPPY VALLEY-GOOSE BAY, NL
 CA A0P 1C0
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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.*