

OIL ANALYSIS REPORT

Particles >71µm

Oil Cleanliness

ASTM D7647 >3

0

ISO 4406 (c) >20/18/14 **21/17/14**

SAMPLE INFORMATION method limit/ba

Area [1657852] **UNIT4 GEN THRUST BEARING**

Component **Thrust Bearing**

PETRO CANADA TURBOFLO XL46 (5556 LTR)

DIAGNOSIS

Fluid

Recommendation

We recommend you service the filters on this component. 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.

A Wear

Light concentration of visible metal present.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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



Particle Filter (Magn: 100 x)

Report Id: MUSHAP [WCAMIS] 02609414 (Generated: 01/19/2024 14:11:18) Rev: 1





SAMPLE INFORM		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		WC0412130		
Sample Date		Client Info		24 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
CONTAMINATION	1	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)		681		
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 CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	13504		
Particles >6µm		ASTM D7647	>2500	1200		
Particles >14µm		ASTM D7647	>160	87		
		//01/11/07/01/	1.00	07		
Particles >21µm		ASTM D7647		21		
Particles >21µm Particles >38µm						

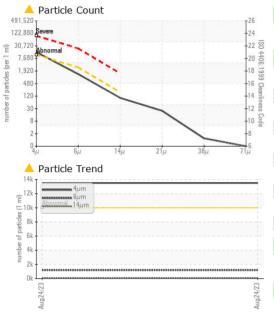
Contact/Location: Kate Price - MUSHAP

VISUAL METAL

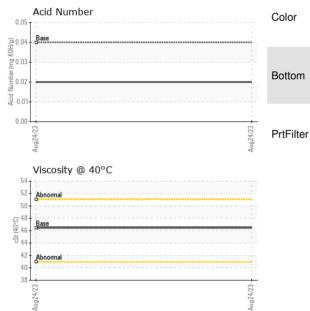


OIL ANALYSIS REPORT

Bottom



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.04	0.02		
VISUAL		method	limit/base	current	history1	history2
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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.39	46.5		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image



🔿 CALA	Laboratory	: WearCheck - C8-	1175 Appleby Lir	ne, Burlington, ON L7L 5H9	MUSKRAT FALLS CORPORATION
According to 1005018	Sample No.	: WC0412130	Recieved	: 17 Jan 2024	19-21 BURNWOOD DRIVE
ISO 17025:2017	Lab Number	: 02609414	Diagnosed	: 19 Jan 2024	HAPPY VALLEY-GOOSE BAY, NL
Accredited	Unique Number	: 5710500	Diagnostician	: Kevin Marson	CA A0P 1C0
Laboratory	Test Package	: IND 2 (Additional	Tests: BottomAr	nalysis, FilterPatch, PrtFilter) Contact: Kate Price
To discuss this	s sample report, d	kateprice@nlh.nl.ca			
Test denoted ((*) outside scope	T: (709)735-0148			
Validity of results and interpretation are based on the sample and information as supplied.					

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