

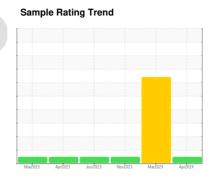
OIL ANALYSIS REPORT

Main Power Generation [450310877]

Generator MPG (Port) - Lubrication System (S/N Sample Tag XX-80101-S1)

Turbine

TURBINE OIL ISO 32 (8300 LTR)





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Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

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

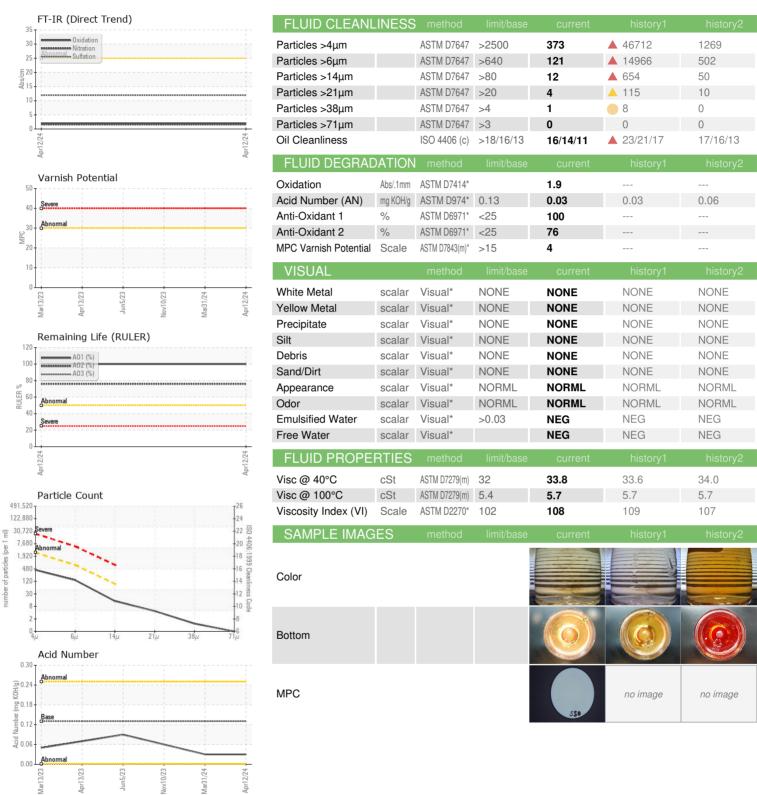
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0081236	PC0080236	PC0076721
Sample Date		Client Info		12 Apr 2024	31 Mar 2024	10 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	SEVERE	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>15	0	0	1
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)		0	0	0
Titanium	ppm	ASTM D5185(m)	-	0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	0	0	0
Lead	ppm	ASTM D5185(m)	- 10	0	0	<1
Copper	ppm	ASTM D5185(m)	>5	<1	<1	<1
Tin	ppm	ASTM D5185(m)		0	0	2
Antimony		ASTM D5185(m)	/0	0	0	0
Vanadium	ppm	. ,		0	0	0
	ppm	ASTM D5185(m)		-	0	0
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		U	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185(m)	limit/base	0	history1	history2 <1
	ppm					
Boron		ASTM D5185(m)	5	0	0	<1
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	5 5	0	0	<1 <1
Boron Barium Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5	0 0 0	0 0 0	<1 <1 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	0 0 0 0	0 0 0	<1 <1 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	0 0 0 0 <1	0 0 0 0 <1	<1 <1 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10	0 0 0 0 <1 0	0 0 0 0 <1	<1 <1 0 0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 5 10 275	0 0 0 0 <1 0 265	0 0 0 0 <1 0 268	<1 <1 0 0 0 0 0 0 258
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10 275 7	0 0 0 0 <1 0 265	0 0 0 0 <1 0 268	<1 <1 0 0 0 0 0 0 258 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10 275 7	0 0 0 0 <1 0 265 1 689	0 0 0 0 <1 0 268 1 690	<1 <1 0 0 0 0 0 0 258 <1 607
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10 275 7 400	0 0 0 0 <1 0 265 1 689	0 0 0 0 <1 0 268 1 690 <1	<1 <1 0 0 0 0 0 0 258 <1 607 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10 275 7 400	0 0 0 0 <1 0 265 1 689 <1	0 0 0 0 <1 0 268 1 690 <1	<1 <1 0 0 0 0 0 0 258 <1 607 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m)	5 5 5 10 275 7 400	0 0 0 0 <1 0 265 1 689 <1	0 0 0 0 <1 0 268 1 690 <1 history1	<1 <1 0 0 0 0 0 0 0 258 <1 607 <1 history2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10 275 7 400 limit/base >15	0 0 0 0 <1 0 265 1 689 <1 current	0 0 0 0 <1 0 268 1 690 <1 history1	<1 <1 0 0 0 0 0 258 <1 607 <1 history2 <1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10 275 7 400 limit/base >15	0 0 0 0 <1 0 265 1 689 <1 current 0	0 0 0 0 <1 0 268 1 690 <1 history1 0 0	<1 <1 0 0 0 0 0 258 <1 607 <1 history2 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10 275 7 400 limit/base >15 >20 >0.03	0 0 0 0 <1 0 265 1 689 <1 current 0 0 <10	0 0 0 0 <1 0 268 1 690 <1 history1 0 <1 0	<1 <1 0 0 0 0 0 258 <1 607 <1 history2 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 10 275 7 400 limit/base >15 >20 >0.03 >300	0 0 0 0 <1 0 265 1 689 <1 current 0 0 <1 0	0 0 0 0 <1 0 268 1 690 <1 history1 0 0 <1 0	<1 <1 0 0 0 0 0 258 <1 607 <1 history2 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D6304* ASTM D6304*	5 5 5 10 275 7 400 limit/base >15 >20 >0.03 >300	0 0 0 0 0 <1 0 265 1 689 <1 current 0 0 <1 0.001 3	0 0 0 0 <1 0 268 1 690 <1 history1 0 0 <1 0.001 7	<1 <1 0 0 0 0 0 258 <1 607 <1 history2 <1 history2



OIL ANALYSIS REPORT







Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No. Lab Number Unique Number : 5775703

: PC0081236 : 02634550

Test Package : AOM 1

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.

Received

Diagnosed

Tested

: 10 May 2024

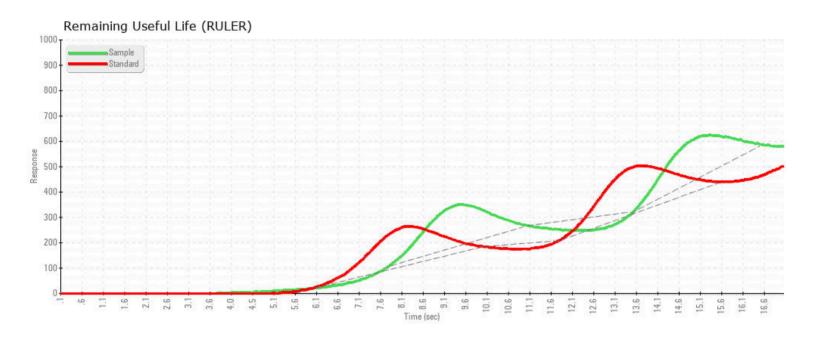
: 15 May 2024

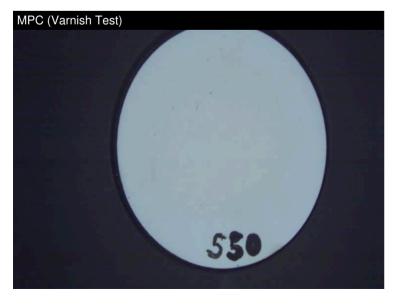
: 15 May 2024 - Bill Quesnel

Suncor - Terra Nova Projects Scotia Centre, 235 Water Strret

St. John's, NL **CA A1C 1B6** Contact: Josh Hynes

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Report Id: TERHAM [WCAMIS] 02634550 (Generated: 05/30/2024 08:06:54) Rev: 1

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