

OIL ANALYSIS REPORT

Sample Rating Trend



DIAGNOSIS

Fluid

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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

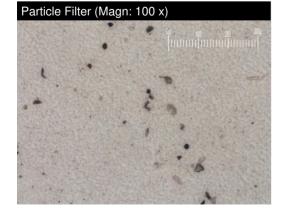
Component wear rates appear to be normal (unconfirmed).

Contamination

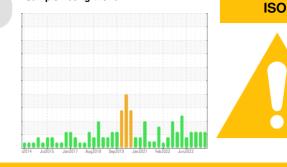
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



Report Id: ONTQUE [WCAMIS] 02625281 (Generated: 04/01/2024 09:21:06) Rev: 1



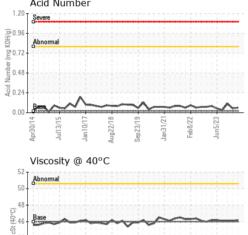
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0890876	WC0801627	WC0858108
Sample Date		Client Info		27 Mar 2024	07 Jan 2024	25 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>85	7	6	6
Chromium	ppm	. ,	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>40	0	<1	<1
Lead	ppm	ASTM D5185(m)	>60	0	<1	0
Copper	ppm	ASTM D5185(m)	>7	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>40	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
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			history2
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	limit/base 0	current 0	history1 0	<1
Boron Barium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	0	current 0 0	<mark>history1</mark> 0 0	<1 <1
Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		Current O O O	history1 0 0 0	<1 <1 0
Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0	Current O O O O O	history1 0 0 0 0	<1 <1 0 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0	current 0 0 0 0 0	history1 0 0 0 0 0 0	<1 <1 0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0	current 0 0 0 0 0 0 0 0 0 0 0 0 0 0	history1 0 0 0 0 0 0 0	<1 <1 0 0 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 2.4	Current 0 0 0 0 0 0 0 2	history1 0 0 0 0 0 0 0 1	<1 <1 0 0 0 <1 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 2.4	Current 0 0 0 0 0 0 0 2 2 <1	history1 0 0 0 0 0 0 0 1 1 <1	<1 <1 0 0 0 <1 2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 2.4	Current 0 0 0 0 0 0 0 2 <1 675	history1 0 0 0 0 0 0 0 1 1 <1 721	<1 <1 0 0 0 <1 2 <1 689
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 2.4	Current 0 0 0 0 0 0 0 2 2 <1	history1 0 0 0 0 0 0 0 1 1 <1	<1 <1 0 0 0 <1 2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 2.4	Current 0 0 0 0 0 0 0 2 <1 675	history1 0 0 0 0 0 0 0 1 1 <1 721	<1 <1 0 0 0 <1 2 <1 689
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 2.4 0	current 0 0 0 0 0 0 2 <1 675 <1 current	history1 0 0 0 0 0 0 1 1 <1 721 <1	<1 <1 0 0 0 <1 2 <1 689 <1 history2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 2.4 0 1 imit/base	current 0 0 0 0 0 0 2 <1 675 <1 current	history1 0 0 0 0 0 0 0 0 0 1 721 <1 history1	<1 <1 0 0 0 <1 2 <1 689 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 0 2.4 0 1 imit/base	current 0 0 0 0 0 0 2 <1 675 <1 current	history1 0 0 0 0 0 0 0 0 0 0 1 <1 history1 <1	<1 <1 0 0 0 <1 2 <1 689 <1 history2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Chosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 2.4 0 imit/base >20	Current 0 0 0 0 0 0 0 0 0 0 0 0 0 2 <1 675 <1 Current 0 0 0 0 0 0	history1 0 0 0 0 0 0 0 0 0 1 <1 721 <1 history1 <1 0	<1 <1 0 0 0 <1 2 <1 689 <1 history2 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 2.4 0 limit/base >20	current 0 0 0 0 0 0 0 0 0 2 <1 675 <1 current 0 0 1	history1 0 0 0 0 0 0 0 0 0 1 <1 <1 history1 <1 0 <1 0 <1 1 <1 1 <1 0 <1	<1 <1 0 0 <1 2 <1 689 <1 history2 <1 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 2.4 0 0 0 0 2.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Current 0 0 0 0 0 0 2 <1 675 <1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0urrent	history1 0 0 0 0 0 0 1 <1 721 <1 history1 <1 0 <1 //>history1 <1 0 <1 1 0 <1 //>history1	<1 <1 0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 2.4 0 2.4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Current 0 0 0 0 0 0 0 0 0 2 <1 675 <1 0 0 0 0 0 0 <1 0 0 <1 <1 <1 <th>history1 0 0 0 0 0 0 0 0 0 1 721 <1 history1 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 34755</th> <th><1 <1 0 0 0 -1 2 <1 689 <1 history2 <1 0 0 0 history2 ▲ 33194</th>	history1 0 0 0 0 0 0 0 0 0 1 721 <1 history1 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 34755	<1 <1 0 0 0 -1 2 <1 689 <1 history2 <1 0 0 0 history2 ▲ 33194
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0 2.4 0 2.4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Current 0 0 0 0 0 0 0 0 2 <1 675 <1 0 0 0 0 0 0 0 0 0 0 21 current 0 0.34304 2018	history1 0 0 0 0 0 0 1 <1 721 <1 history1 <1 0 <1 history1 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 0 0 0 <1 2 <1 689 <1 history2 <1 0 0 0 history2 <1 0 <t< th=""></t<>
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D76477 ASTM D7647	0 0 0 2.4 0 2.4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Current 0 0 0 0 0 0 0 0 2 <1 675 <1 0 0 0 0 0 0 0 0 0 0 0 0 018 34	history1 0 0 0 0 0 0 0 0 0 1 <1 <1 history1 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 1989 13	<1 <1 0 0 0 <1 2 <1 689 <1 history2 <1 0 0 0 history2 1 2 33194 2085 15
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D76477 ASTM D76477 ASTM D7647	0 0 0 2.4 0 2.4 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Current 0 0 0 0 0 0 2 <1 675 <1 0 0 0 0 0 0 <1 current 0 <1 current 0 0 018 34 9	history1 0 0 0 0 0 0 0 0 1 <1 <1 <1 <1 <1 <1 0 <1 1 <1 0 <1 13 34755 13 4	<1 0 0 0 1 2 <1 689 <1 689 <1 1 689 <1 1 0 0 0 history2 ↓ 33194 ↓ 2085 15 ↓
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D76477 ASTM D7647	0 0 0 2.4 0 2.4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Current 0 0 0 0 0 0 0 0 2 <1 675 <1 0 0 0 0 0 0 0 0 0 0 0 0 018 34	history1 0 0 0 0 0 0 0 0 0 1 <1 <1 history1 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 1989 13	<1 <1 0 0 0 <1 2 <1 689 <1 history2 <1 0 0 0 history2 1 2 33194 2085 15
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Potassium Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 2.4 0 2.4 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Current 0 0 0 0 0 0 0 2 <1 675 <1 0 0 0 0 0 2 <1 current 0 0 21 current 0 2018 34 9 1	history1 0 0 0 0 0 0 0 0 1 <1 721 <1 <1 <1 0 <1 0 <1 1 34755 1989 13 4 1	<1 <1 0 0 0 <1 2 <1 689 <1 history2 <1 0 0 history2 <13194 2085 15 <1 1

Submitted By: ?



OIL ANALYSIS REPORT

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Sep23/19

Jan 31/21

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42 - Abnorma

40

Apr30/14

Jan 10/17

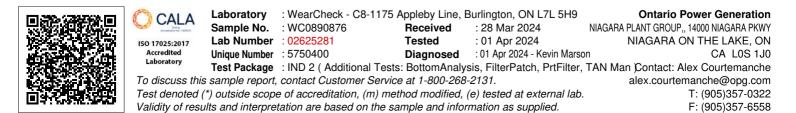
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.06	0.05	0.11
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	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
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	46.2	46.1	46.1
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
				F P		

Color

Bottom



PrtFilter



Feb8/22