

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id SAB1 G1 Component Reference New (Unused) Oil Fluid {not provided} (---- GAL)

DIAGNOSIS

Recommendation

This is the baseline readout on this new (unused) oil. Please specify the brand, type, and viscosity of the oil on your next sample.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the new (unused) oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC		
Sample Date		Client Info		03 Jul 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	I	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>5	<1		
Chromium	ppm	ASTM D5185(m)	>5	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>5	0		
Copper	ppm	ASTM D5185(m)	>5	1		
Tin	ppm	ASTM D5185(m)	>5	0		
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)		<1		
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)		2		
Phosphorus	ppm	ASTM D5185(m)		6		
Zinc	ppm	ASTM D5185(m)		2		
Sulfur	ppm	ASTM D5185(m)		650		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*		1.8		
Sulfation	Abs/.1mm	ASTM D7415*		10.5		



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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	759		
Particles >6µm		ASTM D7647	>1300	203		
Particles >14µm		ASTM D7647	>160	18		
Particles >21µm		ASTM D7647	>40	5		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		2.0		
Acid Number (AN)	mg KOH/g	ASTM D974*		0.03		
Anti-Oxidant 1	%	ASTM D6971*	<25	100		
Anti-Oxidant 2	%	ASTM D6971*	<25	100		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
White Metal Yellow Metal	scalar scalar	Visual* Visual*	NONE NONE	NONE NONE		
White Metal Yellow Metal Precipitate	scalar scalar scalar	Visual* Visual* Visual*	NONE NONE	NONE NONE NONE		
White Metal Yellow Metal Precipitate Silt	scalar scalar scalar scalar	Visual* Visual* Visual* Visual*	NONE NONE NONE	NONE NONE NONE NONE	 	
White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE	NONE NONE NONE NONE	 	
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	 	
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE NONE NORE	NONE NONE NONE NONE NONE NORML	 	
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE NONE NORML	NONE NONE NONE NONE NONE NORML		
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML NEG		
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML NEG		
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NONE NONE NONE NONE NORML NORML INORML INORML INORML INORML INORML INORML INORML INORML INORML INORML INORML INORML INORML INORML	NONE NONE NONE NONE NONE NORML NORML NEG NEG	 	 history2
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPERT Visc @ 40°C	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* Astm D7279(m)	NONE NONE NONE NONE NONE NONE NORML NORML IMITARE IMITARE	NONE NONE NONE NONE NONE NORML NORML NEG NEG Current	history1	 history2
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Free Water Visc @ 40°C Visc @ 100°C	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D7279(m)	NONE NONE NONE NONE NONE NORML NORML IMITASS	NONE NONE NONE NONE NORE NORML NORML NEG NEG Current 45.8 6.9		history2
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Free Water Visc @ 40°C Visc @ 100°C Viscosity Index (VI)	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D7279(m) ASTM D7279(m)	NONE NONE NONE NONE NONE NORML NORML Imit/base	NONE NONE NONE NONE NORML NORML NEG NEG Current 45.8 6.9 106	history1	 history2

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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Ontario Power Generation** NIAGARA PLANT GROUP,, 14000 NIAGARA PKWY Sample No. : WC Received : 04 Jul 2024 Lab Number : 02645431 Tested : 08 Jul 2024 NIAGARA ON THE LAKE, ON Unique Number : 5802970 Diagnosed : 08 Jul 2024 - Kevin Marson CA LOS 1J0 Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PQ, PrtCount, RULer, VIQontact: Michael Brochu To discuss this sample report, contact Customer Service at 1-800-268-2131. mike.brochu@opg.com T: (905)357-0322 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. F: (905)374-5466

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