

OIL ANALYSIS REPORT

Sample Rating Trend





OLIN Ch#4 [GTT224-474 1-1335046] **YORK SBVM230960**

SAMPLE INFORMATION method

REFRIGERATION OIL (POE) (--- GAL)





DIAGNOSIS Recommendation

If not recently done change any filter driers to reduce moisture level. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The elevated moisture content is associated with POE oils which are hygroscopic, and can absorb moisture from sampling and processing.

Fluid Condition

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

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Sample Number		Client Info		GTT0001132	GTT0001211	GTT62207
Sample Date		Client Info		28 Mar 2024	29 Nov 2023	23 Feb 2023
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	<1	<1	<1
Chromium	ppm	ASTM D5185(m)	>2	0	0	<1
Nickel	ppm	ASTM D5185(m)		<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>2	0	<1	
Aluminum	ppm	ASTM D5185(m)	>3	<1	0	<1
Lead	ppm	ASTM D5185(m)	>2	0	0	<1
Copper	ppm	ASTM D5185(m)	>8	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
	1-1-	()		•		
ADDITIVES	T- T-	method	limit/base	-	history1	history2
ADDITIVES Boron	ppm		limit/base	-	history1 <1	history2
		method	0	current		
Boron	ppm	method ASTM D5185(m)	0	current 1	<1	
Boron Barium	ppm ppm	method ASTM D5185(m) ASTM D5185(m)	0 0 0	current 1 0	<1 <1	
Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0	current 1 0 0	<1 <1 0	
Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0	current 1 0 0 0	<1 <1 0 0	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0	current 1 0 0 0 0	<1 <1 0 0 0	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 10 250	Current 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 <1 0 0 0 0 0	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method 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 10 250	Current 1 0 0 0 0 0 0	<1 <1 0 0 0 0 0 0	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	0 0 0 0 0 10 250 0	Current 1 0 0 0 0 0 0 <1 <1 <1	<1 <1 0 0 0 0 0 0 <1	 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	0 0 0 0 0 10 250 0	Current 1 0 0 0 0 0 0 <1 <1 1 1 3 <1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 <1 0 0 0 0 0 0 0 <1 39	 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	0 0 0 0 10 250 0 400	Current 1 0 0 0 0 0 0 1 0 0 0 1	<1 <1 0 0 0 0 0 0 <1 39 <1	 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	0 0 0 0 10 250 0 400	Current 1 0 0 0 0 0 0 1	<1 <1 0 0 0 0 0 0 <1 39 <1 history1	 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	0 0 0 0 10 250 0 400	Current 1 0 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 1	<1 <1 0 0 0 0 0 0 0 0 0 4 1 39 <1 8 1 history1 6	 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m)	0 0 0 0 10 250 0 400 limit/base >15	Current 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <1 13 <1 Current 4 0	<1 <1 0 0 0 0 0 <1 39 <1 history1 6 2	 <1 kistory2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m)	0 0 0 0 10 250 0 400 limit/base >15 >20	Current 1 0 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 1	<1 <1 0 0 0 0 0 <1 39 <1 39 <1 history1 6 2 4	 <1 kistory2



OIL ANALYSIS REPORT

VISUAL		method	limit/base	current	history1	history2			
White Metal	scalar	Visual*	NONE	NONE	NONE				
Yellow Metal	scalar	Visual*	NONE	NONE	NONE				
Precipitate	scalar	Visual*	NONE	NONE	NONE				
Silt	scalar	Visual*	NONE	NONE	NONE				
Debris	scalar	Visual*	NONE	NONE	NONE				
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE				
Appearance	scalar	Visual*	NORML	NORML	NORML				
Odor	scalar	Visual*	NORML	NORML	NORML				
FLUID PROPERT	IES	method	limit/base	current	history1	history2			
Visc @ 40°C	cSt	ASTM D7279(m)		19.1	30.1				
SAMPLE IMAGES		method	limit/base	current	history1	history2			
Color						no image			
Bottom				6		no image			
GRAPHS									



Lab Number : 02645071 Tested : 05 Jul 2024 Québec, QC Unique Number : 5802610 Diagnosed : 05 Jul 2024 - Bill Quesnel CA G1M 2W8 Test Package : IND 2 (Additional Tests: KF, TAN Man) Contact: Service Manager To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.

: 02 Jul 2024

Received

Report Id: GTT0000202 [WCAMIS] 02645071 (Generated: 07/05/2024 18:06:56) Rev: 1

Sample No. : GTT0001132

Contact/Location: Service Manager - GTT0000202 Page 2 of 2

Johnson Controls- Quebec

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