

OIL ANALYSIS REPORT

NORMAL



HUSSMANN COSTCO 151 RACK C (S/N 97PD-0049)

Compressor

REFRIG COMP OIL ISO 32 (--- GAL)

DIAGNOSIS Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) REFRIG COMP OIL ISO 32. Please confirm.

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

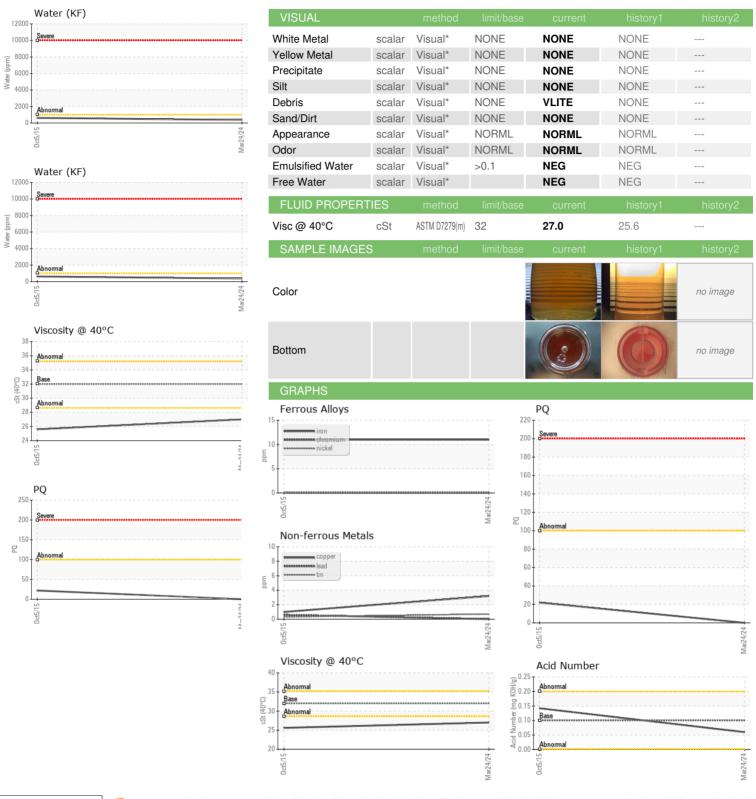
The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Sample Number		Client Info		WC0912824	WC939628	
Sample Date		Client Info		24 Mar 2024	05 Oct 2015	
Machine Age	yrs	Client Info		0	18	
Oil Age	yrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	22	
Iron	ppm	ASTM D5185(m)	>50	11	11	
Chromium	ppm	ASTM D5185(m)	>10	0	0	
Nickel		ASTM D5185(m)	>10	0	0	
Titanium	ppm	(/		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
	ppm	ASTM D5185(m)	٥٢	-		
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	
Lead	ppm	ASTM D5185(m)		0	<1	
Copper	ppm	ASTM D5185(m)	>50	3	1	
Tin	ppm	. ,	>15	<1	<1	
Antimony	ppm	ASTM D5185(m)		0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185(m)	limit/base	current	history1	history2
	ppm				•	
Boron		ASTM D5185(m)	5	<1	1	
Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)	5 5	<1 0	1 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5	<1 0 0	1 0 0	
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	<1 0 0 0	1 0 0 0 <1	
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	<1 0 0 0 0 <1	1 0 0 <1 0	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 12	<1 0 0 0 0 <1	1 0 0 <1 0 <1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 12 12	<1 0 0 0 0 <1 1	1 0 0 <1 0 <1 2	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 12 12 12	<1 0 0 0 0 <1 1 1 1 3	1 0 0 <1 0 <1 2	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 12 12 12	<1 0 0 0 0 <1 1 1 3 30	1 0 0 <1 0 <1 2 4 197	
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 12 12 12 12 1000	<1 0 0 0 <1 1 1 3 30 <1	1 0 0 <1 0 <1 2 4 197	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 12 12 12 12 1000	<1 0 0 0 <1 1 1 3 30 <1	1 0 0 0 < 1 0 < 1 2 4 197 < 1 history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 12 12 12 12 1000	<1 0 0 0 <1 1 1 3 3 30 <1 current	1 0 0 0 0 <1 0 <1 2 4 197 <1 history1 8	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 12 12 12 12 1000	<1 0 0 0 <1 1 1 3 30 <1 current 3	1 0 0 0 0 <1 0 <1 2 4 197 <1 history1 8 0	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 12 12 12 12 1000 limit/base >25	<1 0 0 0 0 <1 1 1 1 3 30 <1 current 3 <1 <1	1 0 0 0 0 <1 0 <1 2 4 197 <1 history1 8 0 <1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	5 5 5 12 12 12 12 1000 limit/base >25 >20 >0.1	<1 0 0 0 <1 1 1 1 3 30 <1 current 3 <1 <1 0.036	1 0 0 0 0 <1 0 <1 2 4 197 <1 history1 8 0 <1 0.062	history2



OIL ANALYSIS REPORT







Laboratory

Laboratory Sample No.

Lab Number Unique Number : 5749366

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0912824 : 02624247

Received **Tested** Diagnosed : 25 Mar 2024

: 26 Mar 2024

: 26 Mar 2024 - Kevin Marson

Test Package : IND 2 (Additional Tests: KF)

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.

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