

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

TRANE WSU MANOOGIAN HALL TRANE 2 (S/N L02E08748)

Refrigeration Compressor

TRANE 0022 (9 GAL)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. We recommend an early resample to monitor this condition. (Customer Sample Comment: Annual test)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

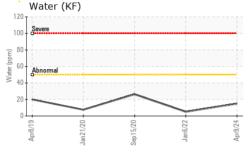
Fluid Condition

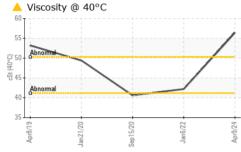
The oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit.

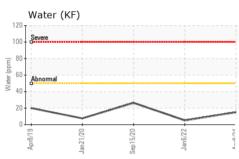
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0827287	WC0618948	WC0426223
Sample Date		Client Info		09 Apr 2024	06 Jan 2022	15 Sep 2020
Machine Age	hrs	Client Info		24867	23784	22235
Oil Age	hrs	Client Info		24867	23784	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	5	3
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	<1	0
Copper	ppm	ASTM D5185m	>8	0	2	1
Tin	ppm	ASTM D5185m	>4	7	9	8
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	<1	3
Phosphorus	ppm	ASTM D5185m		0	3	10
		/ TO THE DO TOOM		U	J	10
Zinc	ppm	ASTM D5185m		24	7	29
•	ppm					
Zinc	ppm	ASTM D5185m	limit/base	24	7	29
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	limit/base >15	24 0	7 357	29 12
Zinc Sulfur CONTAMINANTS	ppm	ASTM D5185m ASTM D5185m method		24 0 current	7 357 history1	29 12 history2
Zinc Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m ASTM D5185m method ASTM D5185m		24 0 current	7 357 history1 6	29 12 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>15	24 0 current 5 <1	7 357 history1 6 0	29 12 history2 6 <1
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	24 0 current 5 <1 0	7 357 history1 6 0	29 12 history2 6 <1 0
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>15 >20 >0.005	24 0 current 5 <1 0 0.001	7 357 history1 6 0 0 0.001	29 12 history2 6 <1 0 0.003



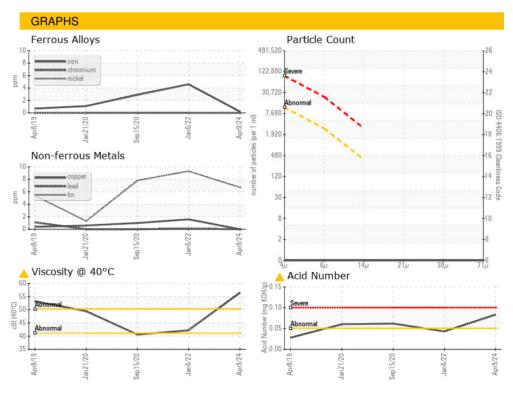
OIL ANALYSIS REPORT















Certificate 12367

Laboratory Sample No.

Lab Number : 06148743 Unique Number : 10978821

: WC0827287 Test Package : PLANT

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Apr 2024 Tested : 19 Apr 2024

Diagnosed

: 19 Apr 2024 - Jonathan Hester

3955 PINNACLE COURT SUITE 300 AUBURN HILLS, MI US 48326

Contact: MICHELLE MANN michelle.mann@daikinapplied.com

DAIKIN APPLIED - AUBURN HILLS

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To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)