

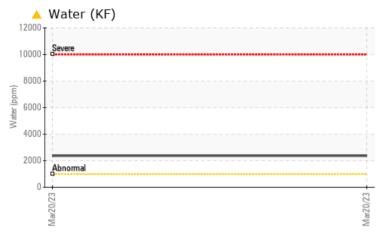
PROBLEM SUMMARY

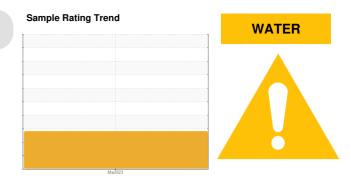
Area [4501182536] Machine Id TRANE SYSTEM B Component

Screw Compressor

NU-CALGON ZEROL 200TD (7 GAL)

COMPONENT CONDITION SUMMARY





Viscosity @ 40°C

RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

34

Mar20/2:

Sample Status				ABNORMAL	
Water	%	ASTM D6304*	>0.1	A 0.237	
ppm Water	ppm	ASTM D6304*	>1000	A 2372.9	
Odor	scalar	Visual*	NORML	🔺 FREON	
Visc @ 40°C	cSt	ASTM D7279(m)	43.0	A 36.3	

Customer Id: CIMTOR Sample No.: WC0778478 Lab Number: 02546952 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1 (289)291-4641 x4641 Bill.Quesnel@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com Mar20/23

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.		
Check Water Access			?	We advise that you check for the source of water entry.		
Check Seals			?	Check seals and/or filters for points of contaminant entry.		
Filter Fluid			?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Area [4501182536] Machine Id TRANE SYSTEM B Component

Screw Compressor Fluid NU-CALGON ZEROL 200TD (7 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 32 range, due to mixing with the refrigerant. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sample Rating Trend WATER

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0778478		
Sample Date		Client Info		20 Mar 2023		
Machine Age	hrs	Client Info		23173		
Oil Age	hrs	Client Info		400		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>60	5		
Chromium	ppm	ASTM D5185(m)	>4	0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	0		
Lead	ppm	ASTM D5185(m)	>10	<1		
Copper	ppm	ASTM D5185(m)	>30	3		
Tin	ppm	ASTM D5185(m)	>15	<1		
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)		0		
Phosphorus	ppm	ASTM D5185(m)		944		
Zinc	ppm	ASTM D5185(m)		<1		
Sulfur	ppm	ASTM D5185(m)		72		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	6		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.1	A 0.237		
ppm Water	ppm	ASTM D6304*	>1000	A 2372.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.0	0.01		



0.00

Pice Acid

0.00 /lar20/

20

150 0

50

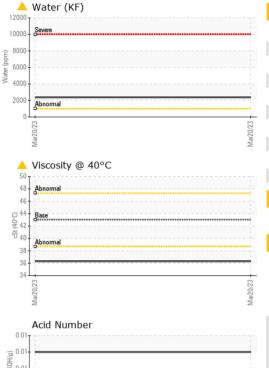
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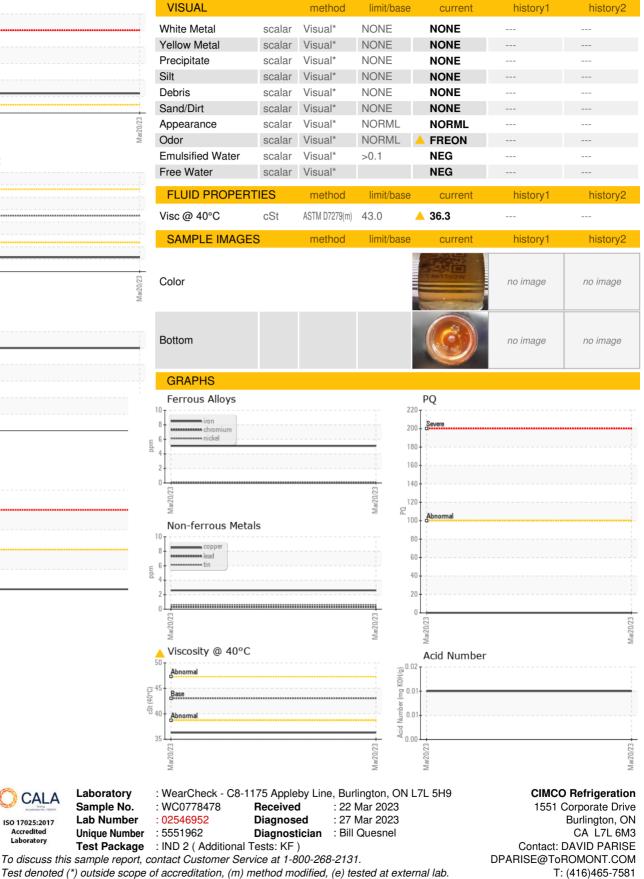
Mar20/23

PQ

Abnorm 100

OIL ANALYSIS REPORT





Report Id: CIMTOR [WCAMIS] 02546952 (Generated: 09/21/2023 11:21:45) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

40°C)

Validity of results and interpretation are based on the sample and information as supplied.

Laboratory

Sample No.

Lab Number

Unique Number

Contact/Location: DAVID PARISE - CIMTOR

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