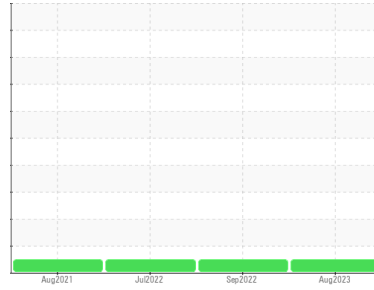




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
{UNASSIGNED}
 Machine Id
TRANE 1000 Maine Ave (S/N L17A00470)
 Component
2 Chiller
 Fluid
TRANE 0022 (7 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0830507	WC0597123	WC0713827
Sample Date	Client Info	13 Aug 2023	07 Sep 2022	15 Jul 2022
Machine Age	hrs Client Info	0	0	5606
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	Not Changd
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >8	2	3	3
Chromium	ppm ASTM D5185m >2	0	0	0
Nickel	ppm ASTM D5185m	0	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m >2	0	<1	<1
Aluminum	ppm ASTM D5185m >3	<1	<1	<1
Lead	ppm ASTM D5185m >2	0	0	0
Copper	ppm ASTM D5185m >8	<1	<1	<1
Tin	ppm ASTM D5185m >4	<1	<1	<1
Antimony	ppm ASTM D5185m	---	---	---
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	0
Barium	ppm ASTM D5185m	<1	0	0
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	<1	0	0
Magnesium	ppm ASTM D5185m	6	<1	<1
Calcium	ppm ASTM D5185m	0	0	0
Phosphorus	ppm ASTM D5185m	1	0	0
Zinc	ppm ASTM D5185m	2	0	0
Sulfur	ppm ASTM D5185m	0	0	0

CONTAMINANTS

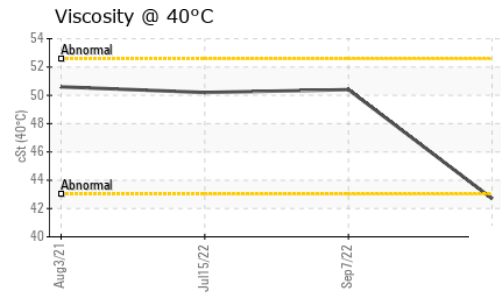
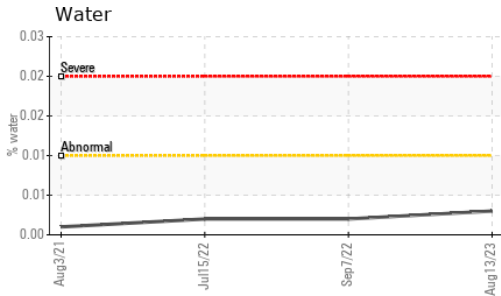
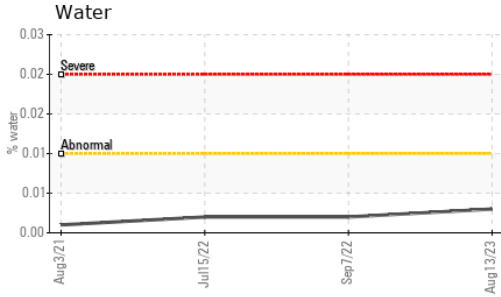
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	2	2	2
Sodium	ppm ASTM D5185m	1	0	0
Potassium	ppm ASTM D5185m >20	0	1	1
Water	% ASTM D6304 >0.01	0.003	0.002	0.002
ppm Water	ppm ASTM D6304 >100	36.1	24.4	21.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	0.015	0.014	0.014



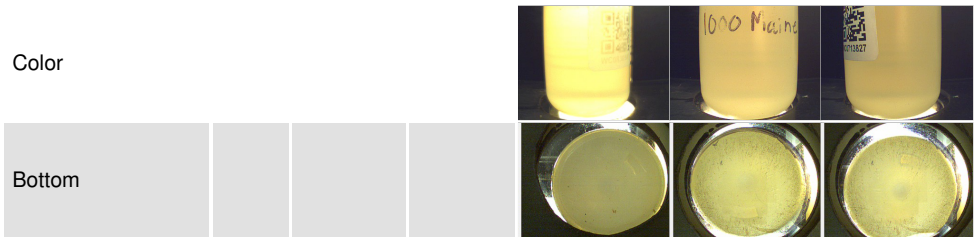
OIL ANALYSIS REPORT



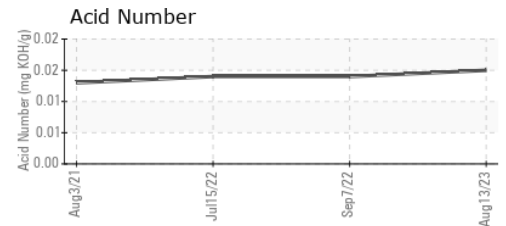
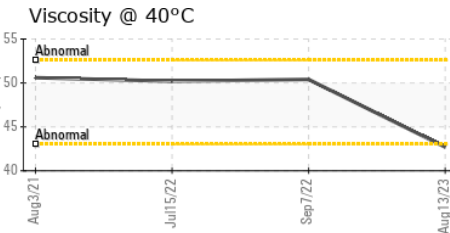
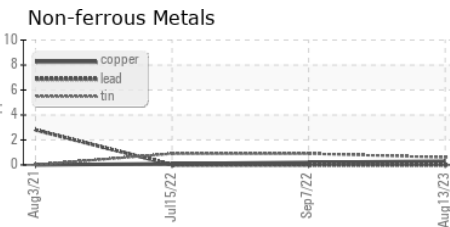
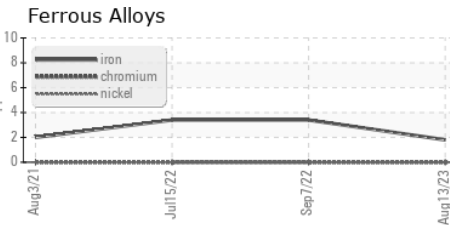
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	42.7	50.4	50.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0830507 Received : 14 Aug 2023
 Lab Number : 05923453 Diagnosed : 15 Aug 2023
 Unique Number : 10603400 Diagnostician : Doug Bogart
 Test Package : IND 2 (Additional Tests: KF)

CDS MECHANICAL SERVICES INC
 1654 CROFTON BLVD, SUITE 9
 CROFTON, MD
 US 21114
 Contact: DAVID BEALE
 DBEALE@CDSMECHANICAL.NET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

T:
F: