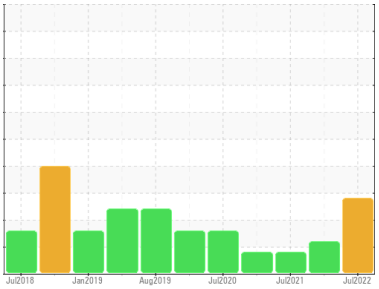
PROBLEM SUMMARY

Sample Rating Trend

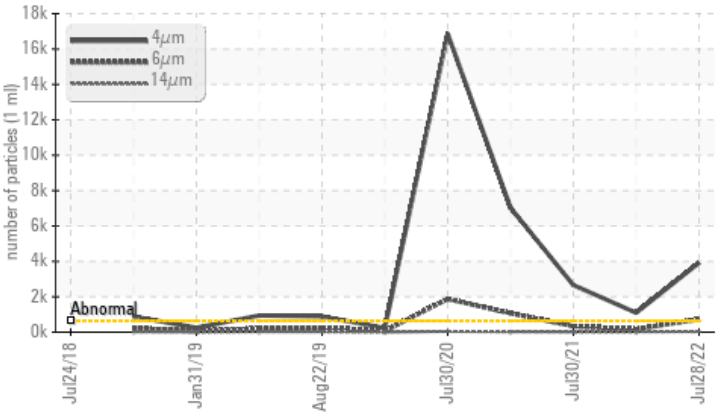


WATER

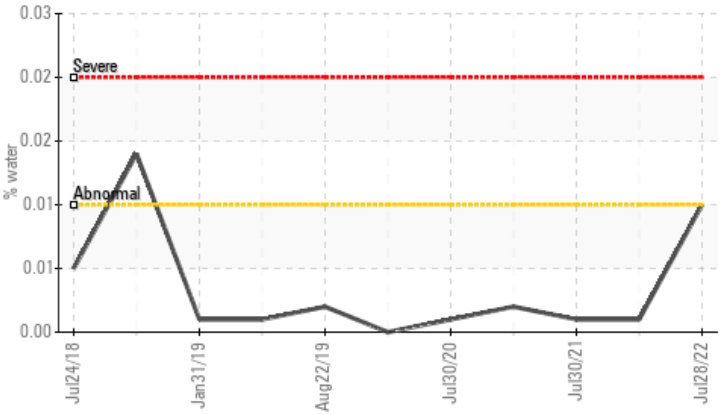
Area
UTILITIES
Machine Id
K6601E (S/N L97K-06758)
Component
Refrigeration Compressor
Fluid
TRANE TRANE COMPRESSOR OIL 22 (20 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Water	%	ASTM D6304	>0.01	▲ **0.010**	0.001	0.001
ppm Water	ppm	ASTM D6304	>100	▲ **102.6**	10.8	9.1
Particles >4µm		ASTM D7647	>640	▲ **3920**	▲ 1094	▲ 2660
Particles >6µm		ASTM D7647	>160	▲ **731**	▲ 168	▲ 335
Oil Cleanliness		ISO 4406 (c)	>16/14/12	▲ **19/17/12**	▲ 17/15/11	▲ 19/16/11

Customer Id: CUSANY
Sample No.: WC1234567
Lab Number: 01234567
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

05 May 2022 Diag: Doug Bogart

ISO

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

30 Jul 2021 Diag: Jonathan Hester

ISO

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

25 May 2021 Diag: Angela Borella

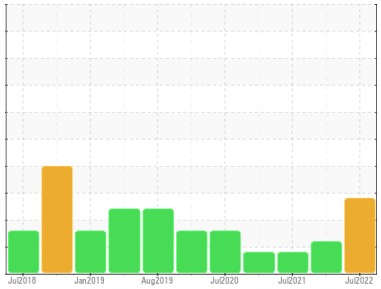
ISO

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
UTILITIES
Machine Id
K6601E (S/N L97K-06758)
Component
Refrigeration Compressor
Fluid
TRANE TRANE COMPRESSOR OIL 22 (20 GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present 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	history 1	history 2
Sample Number			**WC0723586**	WC0686389	WC0593218
Sample Date			**28 Jul 2022**	05 May 2022	30 Jul 2021
Machine Age	hrs		**95376**	95376	0
Oil Age	hrs		**95376**	95376	0
Oil Changed			**N/A**	N/A	N/A
Sample Status			**ABNORMAL**	ATTENTION	ABNORMAL

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	**6**	6	4
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m		**1**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**3**	0	0
Aluminum	ppm	ASTM D5185m	>10	**2**	0	0
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**0**	<1	<1
Tin	ppm	ASTM D5185m	>10	**4**	3	<1
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**<1**	0	<1
Barium	ppm	ASTM D5185m		**0**	1	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**0**	0	0
Phosphorus	ppm	ASTM D5185m		**21**	6	2
Zinc	ppm	ASTM D5185m		**6**	4	0
Sulfur	ppm	ASTM D5185m		**2**	7	39

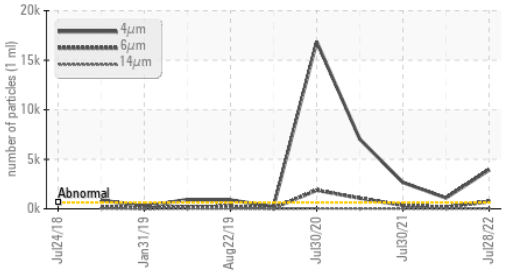
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>15	**8**	5	4
Sodium	ppm	ASTM D5185m		**0**	0	0
Potassium	ppm	ASTM D5185m	>20	**0**	<1	0
Water	%	ASTM D6304	>0.01	▲ **0.010**	0.001	0.001
ppm Water	ppm	ASTM D6304	>100	▲ **102.6**	10.8	9.1

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>640	▲ **3920**	▲ 1094	▲ 2660
Particles >6µm		ASTM D7647	>160	▲ **731**	▲ 168	▲ 335
Particles >14µm		ASTM D7647	>40	**31**	17	13
Particles >21µm		ASTM D7647	>10	**7**	4	2
Particles >38µm		ASTM D7647	>3	**1**	0	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>16/14/12	▲ **19/17/12**	▲ 17/15/11	▲ 19/16/11

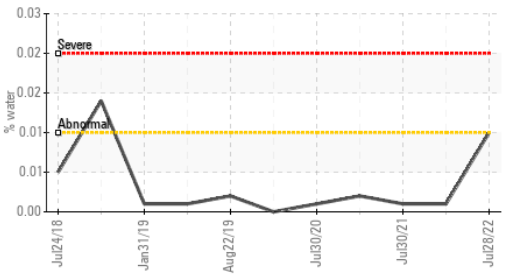
FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D974		**0.014**	0.047	0.03

OIL ANALYSIS REPORT

Particle Trend

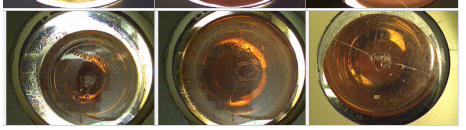


Water



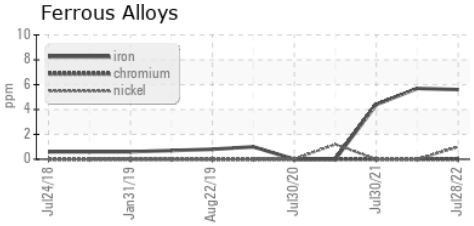
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445		**47.9**	53.9	47.8

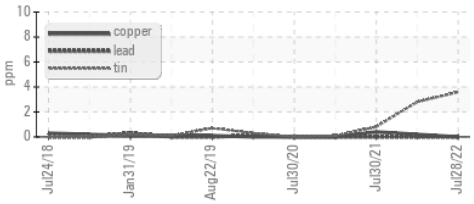
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

GRAPHS

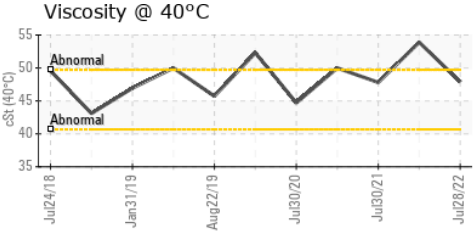
Ferrous Alloys



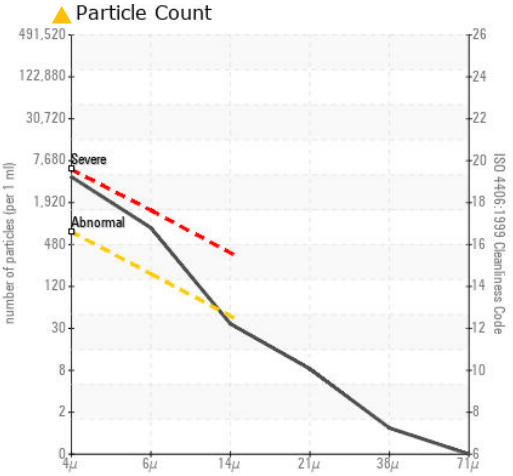
Non-ferrous Metals



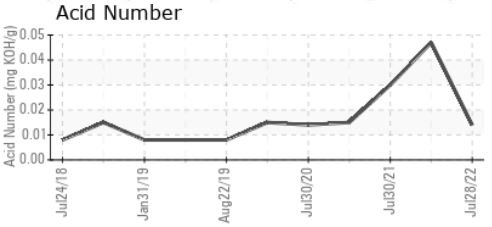
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC1234567 **Received** : 02 Aug 2022
Lab Number : 01234567 **Diagnosed** : 03 Aug 2022
Unique Number : 12345678 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: PrtCount)

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)

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