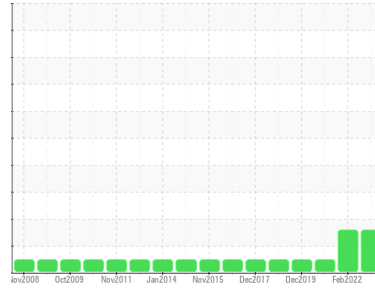




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
MCQUAY NBP322 CHILLER 2 (S/N STNU070900016)

Component
Refrigeration Compressor

Fluid
ANDEROL EVEREST 46 (8 GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

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	history1	history2
Sample Number	Client Info		WC0603707	WC0603700	WCI2309340
Sample Date	Client Info		02 Jan 2024	07 Feb 2022	11 Jan 2021
Machine Age	hrs	Client Info	80930	70110	64960
Oil Age	hrs	Client Info	80930	70110	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			MARGINAL	MARGINAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	8	8	3
Chromium	ppm	ASTM D5185m >2	<1	0	<1
Nickel	ppm	ASTM D5185m	<1	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >50	2	<1	<1
Lead	ppm	ASTM D5185m >2	<1	<1	0
Copper	ppm	ASTM D5185m >100	27	29	23
Tin	ppm	ASTM D5185m >4	0	1	0
Antimony	ppm	ASTM D5185m	---	0	5
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1
Barium	ppm	ASTM D5185m	3	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	0	0
Calcium	ppm	ASTM D5185m	1	0	<1
Phosphorus	ppm	ASTM D5185m	88	9	6
Zinc	ppm	ASTM D5185m	5	31	15
Sulfur	ppm	ASTM D5185m	32	92	30

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	6	8	8
Sodium	ppm	ASTM D5185m	0	<1	2
Potassium	ppm	ASTM D5185m >20	2	<1	0
Water	%	ASTM D6304 >0.005	▲ 0.013	▲ 0.024	0.011
ppm Water	ppm	ASTM D6304 >50	▲ 133	▲ 241.1	114.7

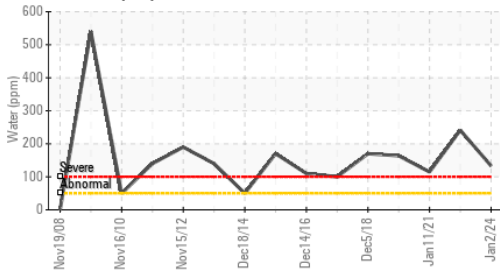
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.05	0.085	0.055	0.063

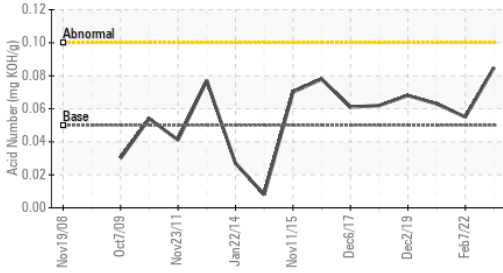


OIL ANALYSIS REPORT

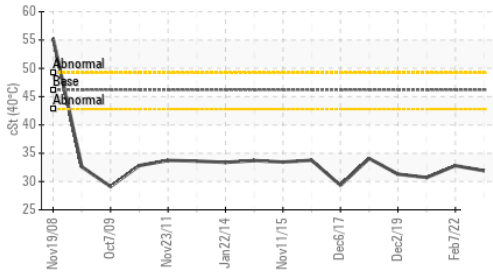
Water (KF)



Acid Number



Viscosity @ 40°C

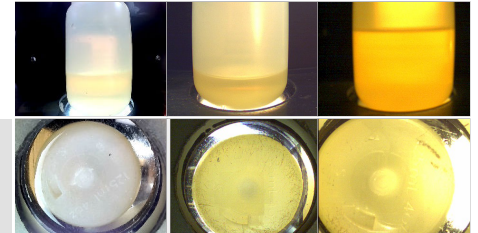


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.005	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.2	31.9	32.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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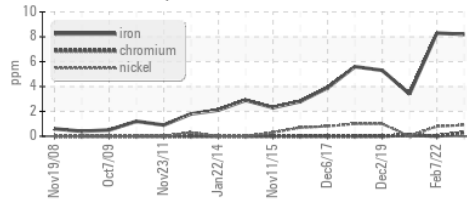
Color



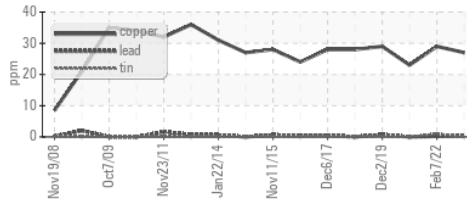
Bottom

GRAPHS

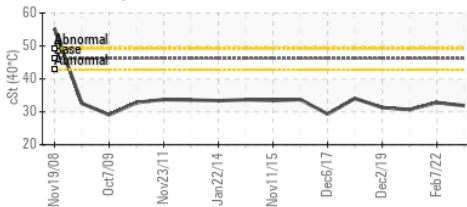
Ferrous Alloys



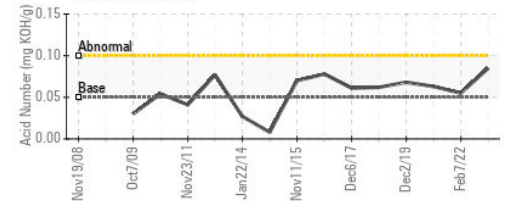
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0603707 **Recieved** : 17 Jan 2024
Lab Number : 06063657 **Diagnosed** : 19 Jan 2024
Unique Number : 10835039 **Diagnostician** : Don Baldrige
Test Package : IND 2

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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)