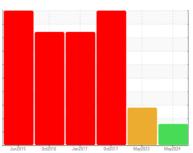


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

RACK A

Refrigeration Compressor

Copeland Ultra 32-3MAF (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We were unable to perform a particle count due to insufficient sample.

All component wear rates are normal.

Contamination

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

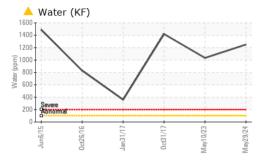
Fluid Condition

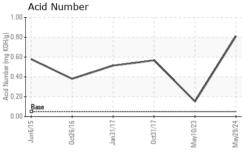
An increase in the AN level is noted. Confirmed. Confirm oil type.

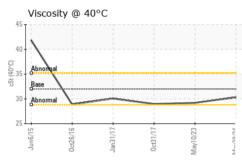
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06195515	WC05850585	WCI2328461
Sample Date		Client Info		29 May 2024	10 May 2023	31 Oct 2017
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	12	23	▲ 385
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	<1	3	<1
Lead	ppm	ASTM D5185m	>2	0	<1	<u>19</u>
Copper	ppm	ASTM D5185m	>8	0	15	15
Tin	ppm	ASTM D5185m	>4	<1	2	10
Antimony	ppm	ASTM D5185m				0
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	0	0	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	3	7	0
Calcium	ppm	ASTM D5185m	0	2	0	0
Phosphorus	ppm	ASTM D5185m	600	0	0	0
Zinc	ppm	ASTM D5185m	0	0	14	38
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	7	7
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.01	<u> </u>	△ 0.103	△ 0.142
ppm Water	ppm	ASTM D6304	>100	<u> </u>	<u>▲</u> 1034.1	<u>▲</u> 1420
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.05	0.811	0.152	0.567



OIL ANALYSIS REPORT







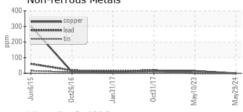
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	△ 0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.0	30.3	29.2	28.97
SAMPLE IMAGES		method	limit/base	current	history1	history2

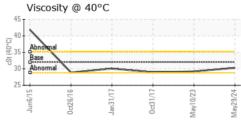
GRAPHS

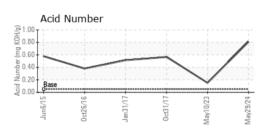
Color

Bottom

Ferrous Alloys 400 100 Non-ferrous Metals











Certificate 12367

Laboratory

Sample No. Unique Number : 11057638

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC06195515 Lab Number : 06195515

Received : 30 May 2024 **Tested** : 31 May 2024

Diagnosed : 02 Jun 2024 - Doug Bogart

US 66401 Contact: JAY WHEELER

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)

F: (785)765-2294

ALMA FOODS

T: (785)765-3396

110 E 1ST

ALMA, KS