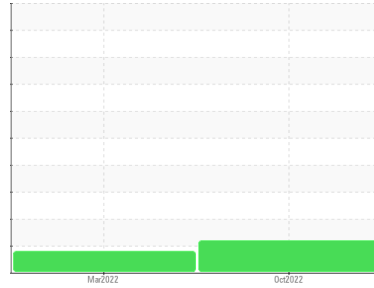




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
GUAY SON [CONHER]
 Machine Id
MADE IN MEXICO IBACO BM NAUTICO 4
 Component
Transmission (Manual)
 Fluid
Raloy SAE 50 (60 LTR)

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 moderate amount of particulates present in the fluid.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KL0011206	KL0009161	---
Sample Date	Client Info	24 Oct 2022	23 Mar 2022	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	1000
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	195	120
Chromium	ppm	ASTM D5185m >5	1	<1
Nickel	ppm	ASTM D5185m >5	0	0
Titanium	ppm	ASTM D5185m	<1	0
Silver	ppm	ASTM D5185m >7	<1	<1
Aluminum	ppm	ASTM D5185m >25	2	<1
Lead	ppm	ASTM D5185m >45	7	4
Copper	ppm	ASTM D5185m >225	35	21
Tin	ppm	ASTM D5185m >10	<1	0
Vanadium	ppm	ASTM D5185m	<1	0
Cadmium	ppm	ASTM D5185m	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	<1
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1
Manganese	ppm	ASTM D5185m	2	1
Magnesium	ppm	ASTM D5185m	9	5
Calcium	ppm	ASTM D5185m	3058	3364
Phosphorus	ppm	ASTM D5185m	875	946
Zinc	ppm	ASTM D5185m	751	705
Sulfur	ppm	ASTM D5185m	6373	4332

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	9	10
Sodium	ppm	ASTM D5185m	2	5
Potassium	ppm	ASTM D5185m >20	2	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	228622	215136	---
Particles >6µm	ASTM D7647 >2500	▲ 103277	▲ 89985	---
Particles >14µm	ASTM D7647 >320	▲ 1692	▲ 1530	---
Particles >21µm	ASTM D7647 >80	62	70	---
Particles >38µm	ASTM D7647 >20	2	0	---
Particles >71µm	ASTM D7647 >4	0	0	---
Oil Cleanliness	ISO 4406 (c) >18/15	▲ 24/18	▲ 24/18	---

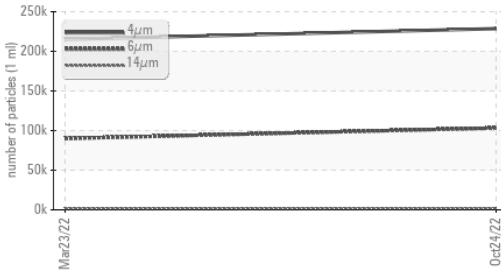
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.59	0.87

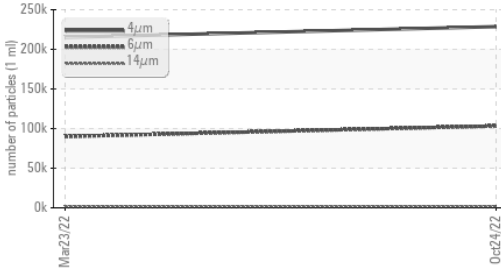


OIL ANALYSIS REPORT

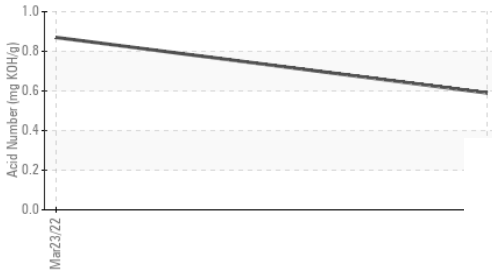
Particle Trend



Particle Trend



Acid Number



Viscosity @ 40°C

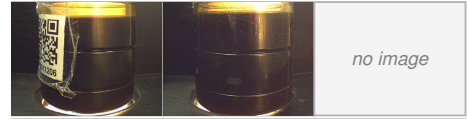


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	227	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



no image

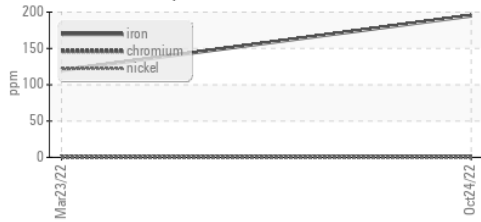
Bottom



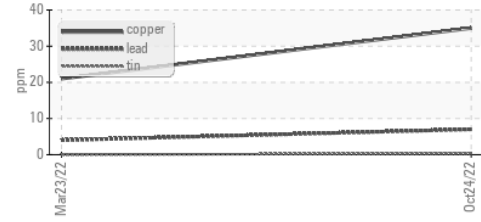
no image

GRAPHS

Ferrous Alloys



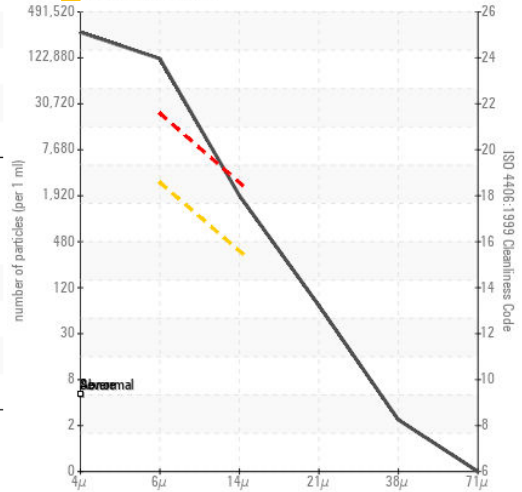
Non-ferrous Metals



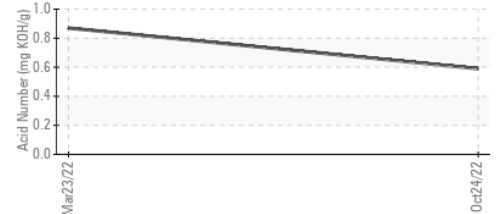
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KL0011206 Received : 31 Oct 2022
 Lab Number : 05680977 Diagnosed : 07 Nov 2022
 Unique Number : 10195548 Diagnostician : Doug Bogart
 Test Package : MOB 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)

CONOR
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 HERMOSILLO,
 MX 83140

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