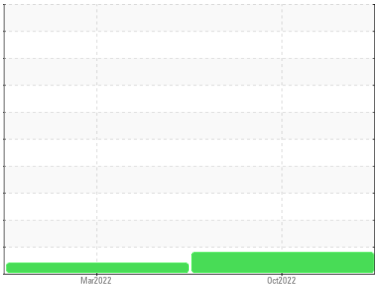
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
GUAY SON [CONHER]
Machine Id
BM NAINARI IBACO BM NAINARI
Component
Transmission (Manual)
Fluid
Raloy SAE 50 (60 LTR)

DIAGNOSIS

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

Wear
The copper level is abnormal. All other component wear rates are normal.

Contamination
There is a high 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	history 1	history 2
Sample Number		Client Info		**KL0010132**	KL0009159	---
Sample Date		Client Info		**03 Oct 2022**	23 Mar 2022	---
Machine Age	hrs	Client Info		**16699**	13882	---
Oil Age	hrs	Client Info		**180**	1302	---
Oil Changed		Client Info		**Not Changd**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>200	**7**	7	---
Chromium	ppm	ASTM D5185m	>5	**<1**	0	---
Nickel	ppm	ASTM D5185m	>5	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m	>7	**<1**	<1	---
Aluminum	ppm	ASTM D5185m	>25	**1**	<1	---
Lead	ppm	ASTM D5185m	>45	**<1**	0	---
Copper	ppm	ASTM D5185m	>225	▲ **264**	132	---
Tin	ppm	ASTM D5185m	>10	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**<1**	0	---
Barium	ppm	ASTM D5185m		**2**	0	---
Molybdenum	ppm	ASTM D5185m		**<1**	<1	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m		**10**	6	---
Calcium	ppm	ASTM D5185m		**3251**	3585	---
Phosphorus	ppm	ASTM D5185m		**867**	942	---
Zinc	ppm	ASTM D5185m		**692**	685	---
Sulfur	ppm	ASTM D5185m		**6101**	4407	---

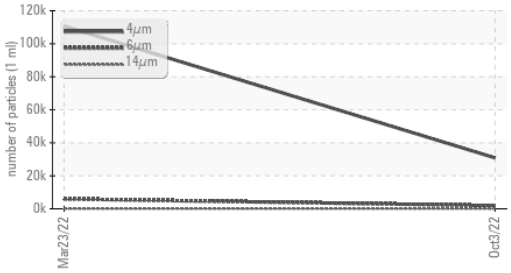
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>125	**6**	6	---
Sodium	ppm	ASTM D5185m		**2**	5	---
Potassium	ppm	ASTM D5185m	>20	**<1**	0	---

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		**30854**	110690	---
Particles >6µm		ASTM D7647	>2500	**1897**	▲ 6002	---
Particles >14µm		ASTM D7647	>320	**106**	107	---
Particles >21µm		ASTM D7647	>80	**13**	15	---
Particles >38µm		ASTM D7647	>20	**1**	0	---
Particles >71µm		ASTM D7647	>4	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>18/15	**18/14**	▲ 20/14	---

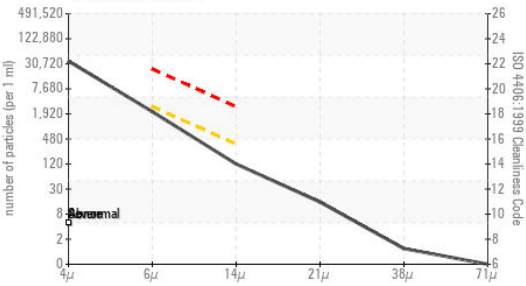
FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.34**	0.939	---

OIL ANALYSIS REPORT

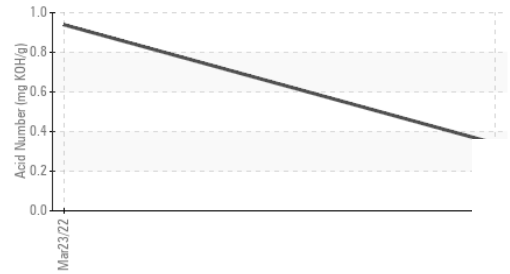
Particle Trend



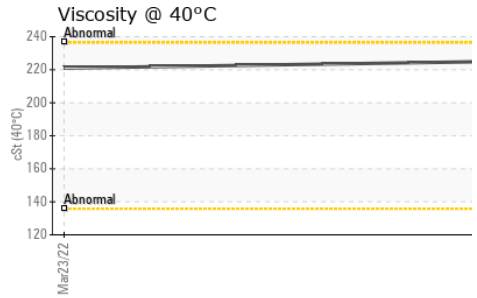
Particle Count



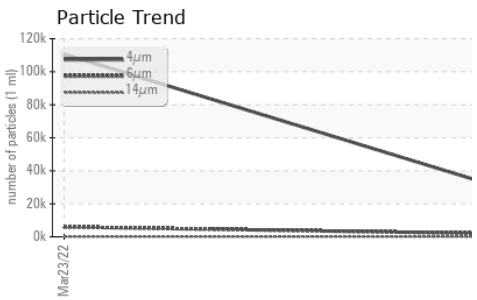
Acid Number



Viscosity @ 40°C

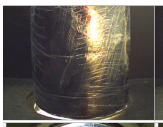
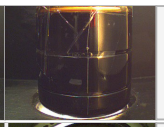
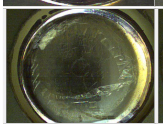
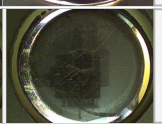


Particle Trend



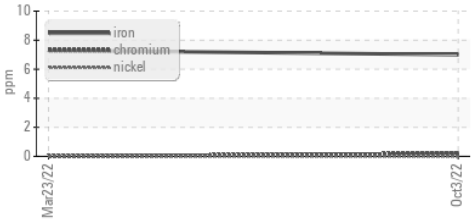
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445		**225**	221	---

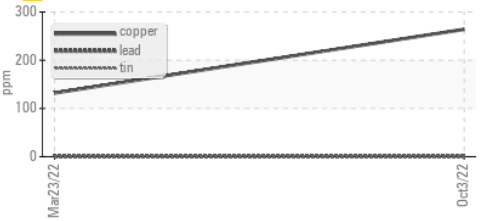
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					*no image*
Bottom					*no image*

GRAPHS

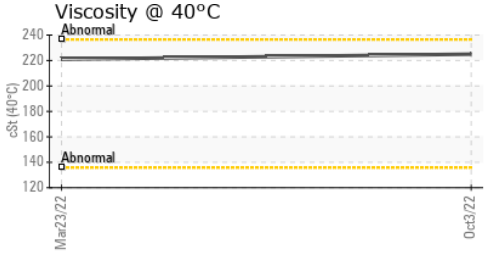
Ferrous Alloys



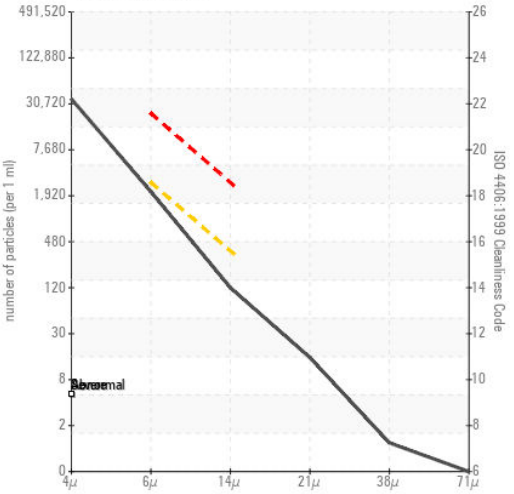
Non-ferrous Metals



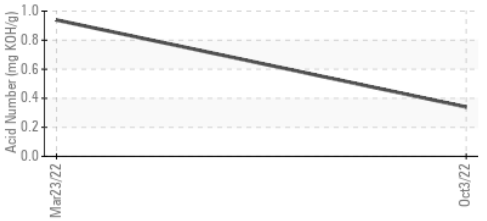
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0010132 **Received** : 10 Oct 2022
Lab Number : 05662296 **Diagnosed** : 13 Oct 2022
Unique Number : 10166865 **Diagnostician** : Jonathan Hester
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)

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