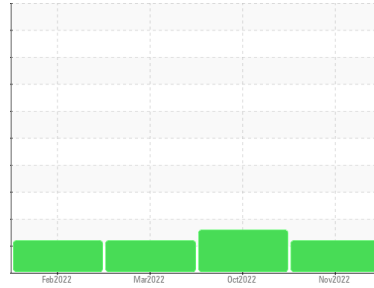




OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Area
GUAY SON [CONHER]
 Machine Id
MAIN ENGINE
 Component
Transmission (Manual)
 Fluid
Raloy SAE 50 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

▲ Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

No other contaminants were detected in the fluid.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0011232	KL0010143	KL0009175
Sample Date	Client Info		12 Nov 2022	05 Oct 2022	23 Mar 2022
Machine Age	hrs	Client Info	10850	10060	1000
Oil Age	hrs	Client Info	790	233	1000
Oil Changed	Client Info		Not Changed	Not Changd	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	150	66	64
Chromium	ppm	ASTM D5185m >5	<1	<1	<1
Nickel	ppm	ASTM D5185m >5	0	0	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >7	0	0	<1
Aluminum	ppm	ASTM D5185m >25	2	1	1
Lead	ppm	ASTM D5185m >45	3	2	<1
Copper	ppm	ASTM D5185m >225	70	39	25
Tin	ppm	ASTM D5185m >10	<1	2	0
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	4	3
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	1	2	1
Manganese	ppm	ASTM D5185m	2	<1	<1
Magnesium	ppm	ASTM D5185m	17	13	9
Calcium	ppm	ASTM D5185m	3383	3461	3581
Phosphorus	ppm	ASTM D5185m	882	956	977
Zinc	ppm	ASTM D5185m	837	1029	953
Sulfur	ppm	ASTM D5185m	6539	7156	4843

CONTAMINANTS

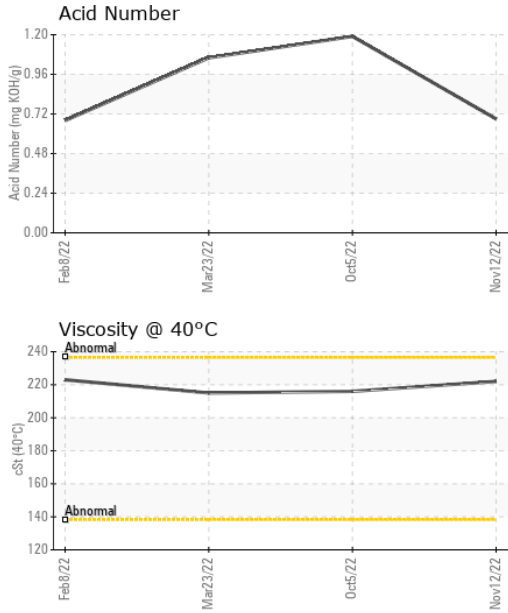
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	28	9	12
Sodium	ppm	ASTM D5185m	5	0	3
Potassium	ppm	ASTM D5185m >20	0	2	0

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		---	302502	182847
Particles >6µm	ASTM D7647	>2500	---	▲ 129699	▲ 89253
Particles >14µm	ASTM D7647	>320	---	▲ 5671	▲ 3480
Particles >21µm	ASTM D7647	>80	---	▲ 673	▲ 247
Particles >38µm	ASTM D7647	>20	---	15	4
Particles >71µm	ASTM D7647	>4	---	0	0
Oil Cleanliness	ISO 4406 (c)	>18/15	---	▲ 24/20	▲ 24/19



OIL ANALYSIS REPORT

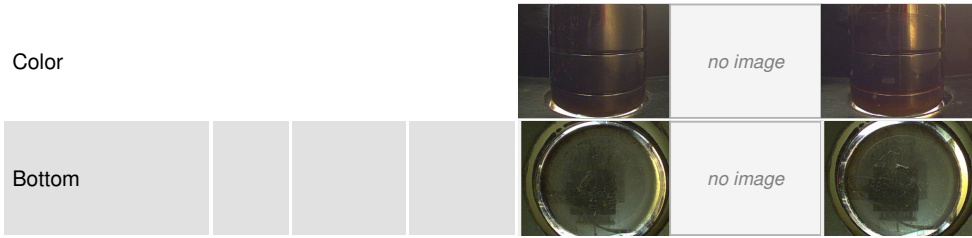


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	1.19	1.06

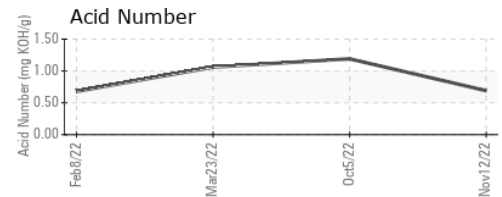
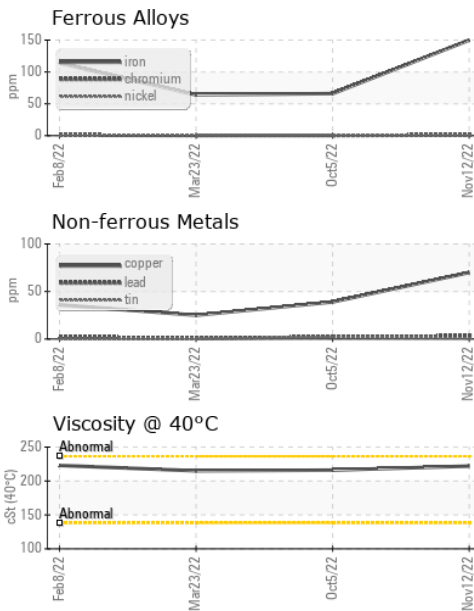
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		222	216	215

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011232 **Received** : 25 Nov 2022
Lab Number : **05702980** **Diagnosed** : 29 Nov 2022
Unique Number : 10232554 **Diagnostician** : Don Baldrige
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
 JUAREZ 348
 HERMOSILLO,
 MX 83140

Contact: EDUARDO GARCIA
 egarcia.comsa@gmail.com

T: (526)622-1581 x:81

F: x: