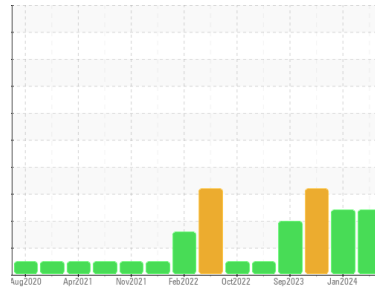




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area  
**GUAY SON [CONHER]**  
 Machine Id  
**Máquina principal Mantito I**  
 Component  
**Auxiliary Auxiliary Engine**  
 Fluid  
**RALOY 15W40 (8 LTR)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Fluid: Raloy 15W40 )

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of particulates present in the oil. Light fuel dilution occurring.

### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KL0014527</b>	KL0013474	KL0013325
Sample Date	Client Info			<b>20 Mar 2024</b>	24 Jan 2024	24 Oct 2023
Machine Age	hrs	Client Info		<b>0</b>	0	16551
Oil Age	hrs	Client Info		<b>144</b>	48	96
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>13</b>	6	18
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

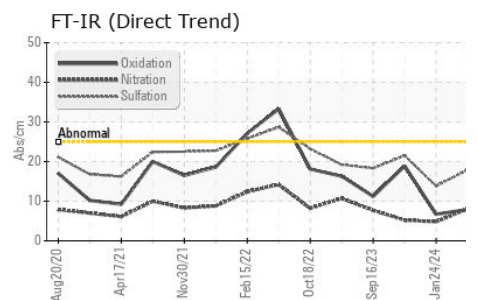
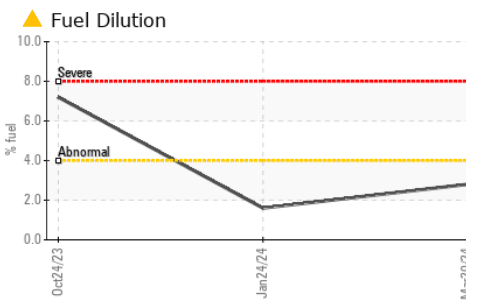
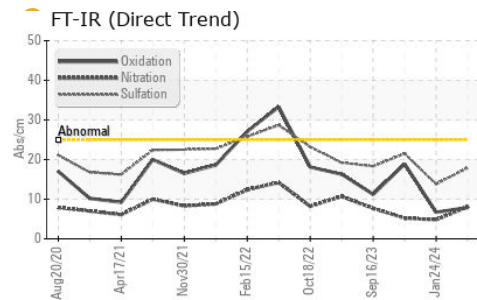
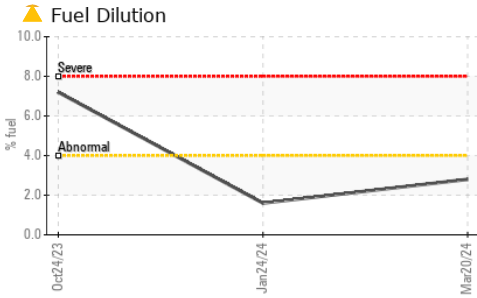
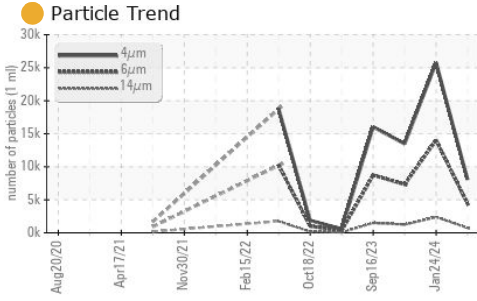
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	70
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	13
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>3</b>	8	68
Calcium	ppm	ASTM D5185m		<b>2674</b>	2646	2213
Phosphorus	ppm	ASTM D5185m		<b>1079</b>	1192	1036
Zinc	ppm	ASTM D5185m		<b>1267</b>	1317	1226
Sulfur	ppm	ASTM D5185m		<b>3562</b>	3781	2986

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>9</b>	9	7
Sodium	ppm	ASTM D5185m		<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	2
Fuel	%	ASTM D3524	>4.0	<b>▲ 2.8</b>	1.6	<b>▲ 7.2</b>

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>2.1</b>	0.6	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	4.8	5.2
Sulfation	Abs./1mm	*ASTM D7415	>30	<b>17.9</b>	13.8	21.5



# OIL ANALYSIS REPORT



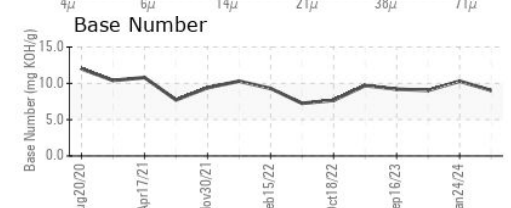
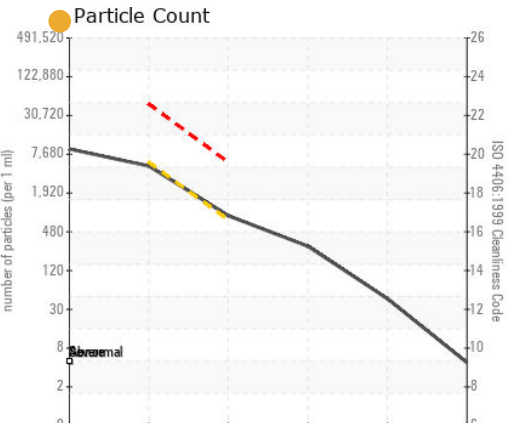
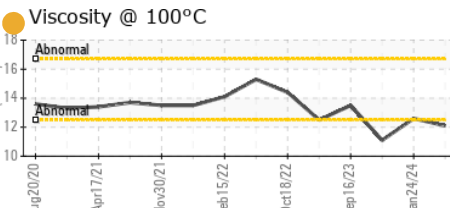
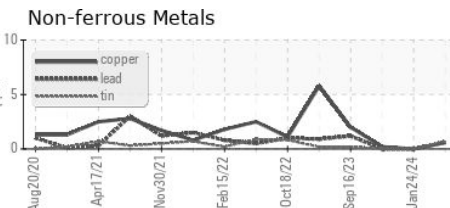
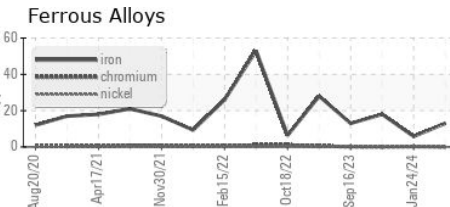
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		8065	25751	13476
Particles >6µm	ASTM D7647	>5000	4393	▲ 14028	● 7341
Particles >14µm	ASTM D7647	>640	● 748	▲ 2387	● 1249
Particles >21µm	ASTM D7647	>160	● 252	▲ 804	● 421
Particles >38µm	ASTM D7647	>40	39	▲ 124	● 65
Particles >71µm	ASTM D7647	>10	4	▲ 13	7
Oil Cleanliness	ISO 4406 (c)	>19/16	● 19/17	▲ 21/18	● 20/17

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	7.9	6.7	18.9
Base Number (BN)	mg KOH/g ASTM D2896		9.02	10.30	9.03

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	NONE	NONE
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 @ 100°C	cSt ASTM D445		● 12.1	12.6	▲ 11.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0014527  
**Lab Number** : 06153307  
**Unique Number** : 10983385  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel, PrtCount )

**Received** : 18 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 23 Apr 2024 - Jonathan Hester

**CONOR**  
 JUAREZ 348  
 HERMOSILLO,  
 MX 83140

Contact: EDUARDO GARCIA  
 egarcia.comsa@gmail.com

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)

T: (526)622-1581 x:81

F: x: