



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	ATTENTION

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

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014527	KL0013474	KL0013325
Sample Date		Client Info		20 Mar 2024	24 Jan 2024	24 Oct 2023
Machine Age	hrs	Client Info		0	0	16551
Oil Age	hrs	Client Info		144	48	96
Filter Age	hrs	Client Info		144	48	96
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	6	18
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

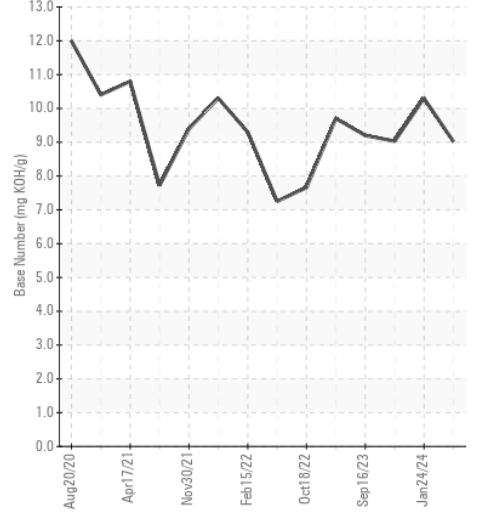
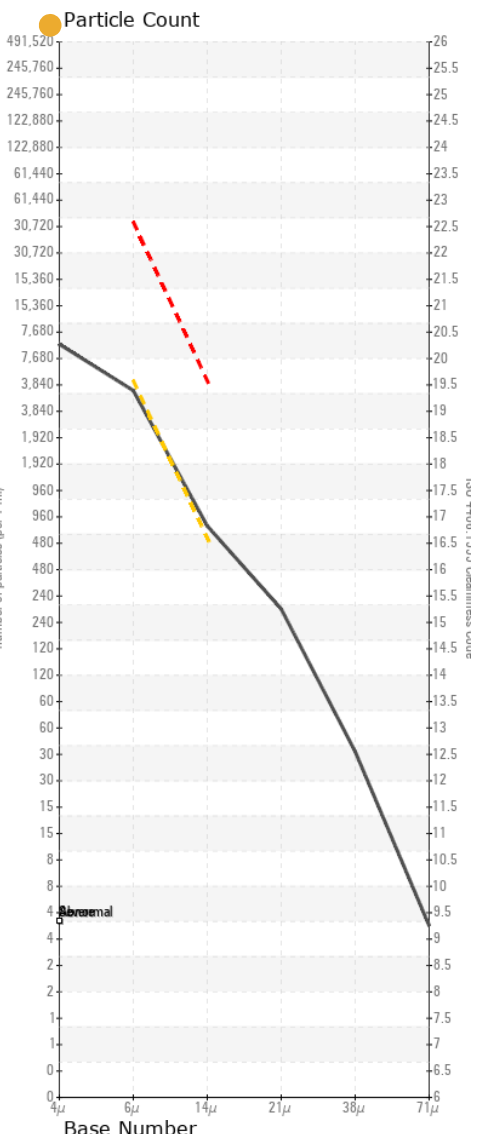
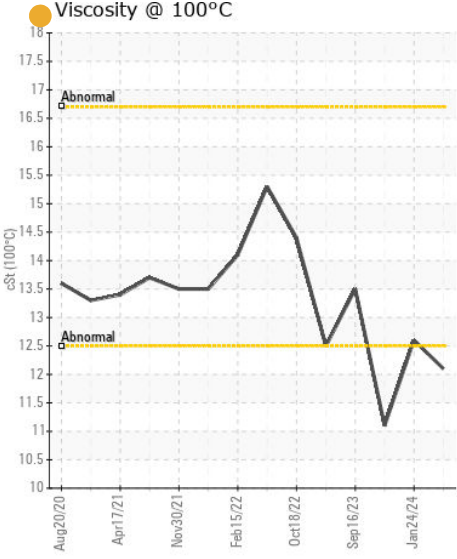
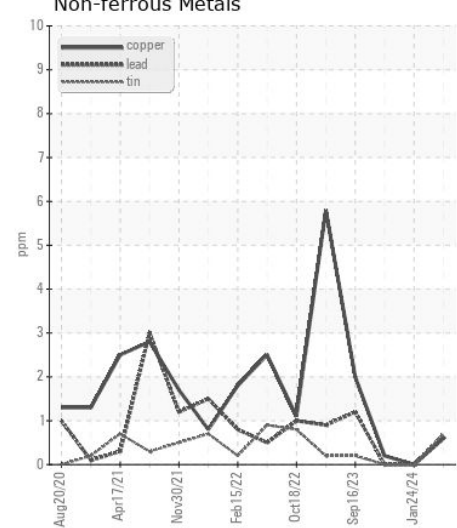
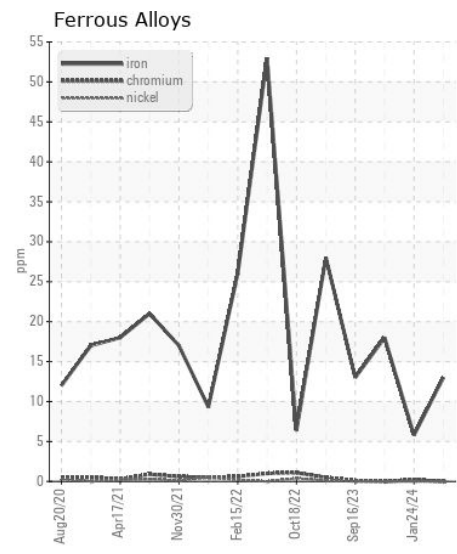
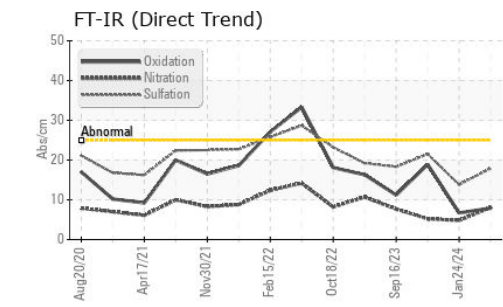
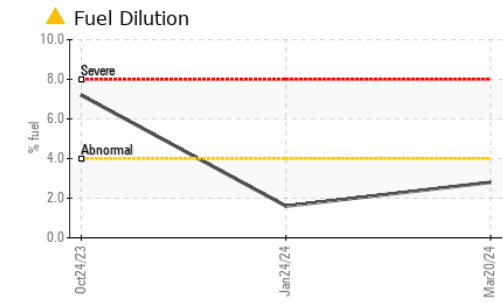
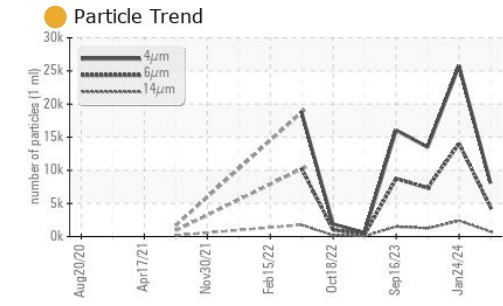
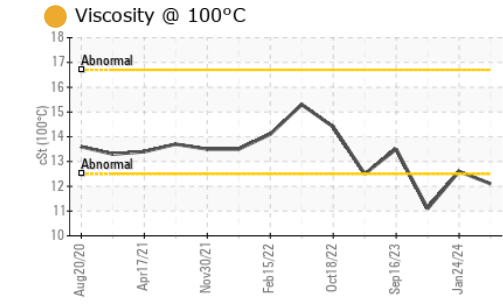
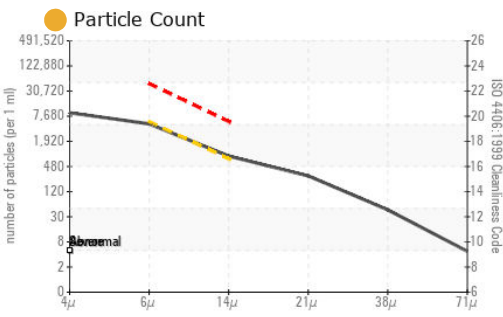
There is a moderate amount of particulates present in the oil. Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>25	9	9	7
Potassium	ppm	ASTM D5185m	>20	2	4	2
Fuel	%	ASTM D3524	>4.0	▲ 2.8	1.6	▲ 7.2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		2.1	0.6	0
Nitration	Abs/cm	*ASTM D7624	>20	8.1	4.8	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	13.8	21.5
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
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

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.

Sodium	ppm	ASTM D5185m		0	0	<1
Boron	ppm	ASTM D5185m		0	0	70
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		<1	0	13
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		3	8	68
Calcium	ppm	ASTM D5185m		2674	2646	2213
Phosphorus	ppm	ASTM D5185m		1079	1192	1036
Zinc	ppm	ASTM D5185m		1267	1317	1226
Sulfur	ppm	ASTM D5185m		3562	3781	2986
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
Visc @ 100°C	cSt	ASTM D445		● 12.1	12.6	▲ 11.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014527 **Received** : 18 Apr 2024
Lab Number : 06153307 **Tested** : 23 Apr 2024
Unique Number : 10983385 **Diagnosed** : 23 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel, 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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