



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
GUAY SON [CONHER]
Machine Id
CHINO 1 IBACO BM CHINO I AUX-1
Component
Diesel 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		KL0014200	KL0014148	KL0013424
Sample Date		Client Info		20 Mar 2024	06 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		192	89	43
Filter Age	hrs	Client Info		192	89	43
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	25	11	7
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
Lead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	<1	3
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

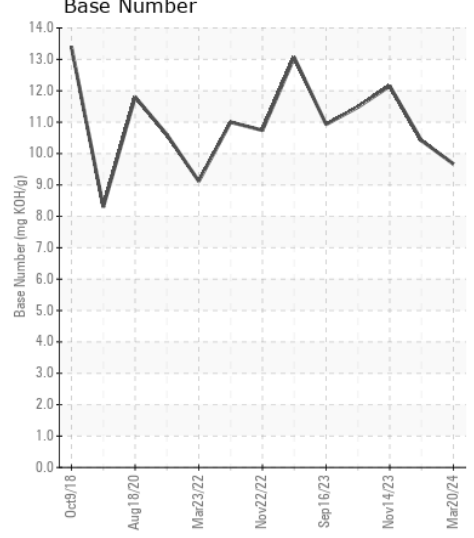
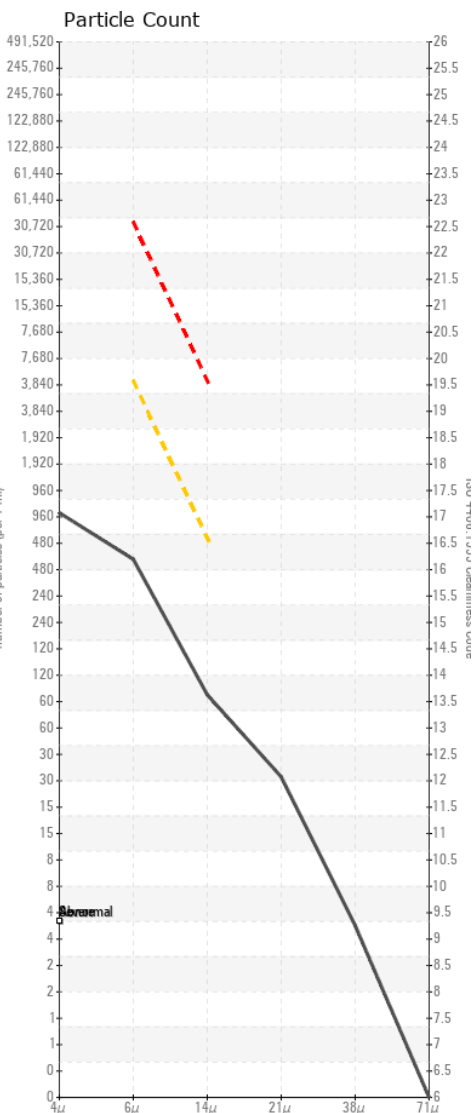
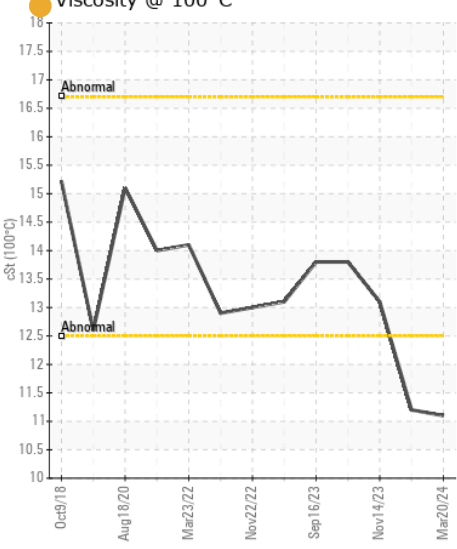
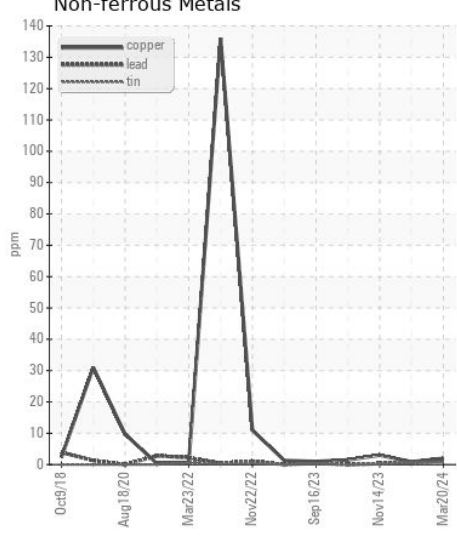
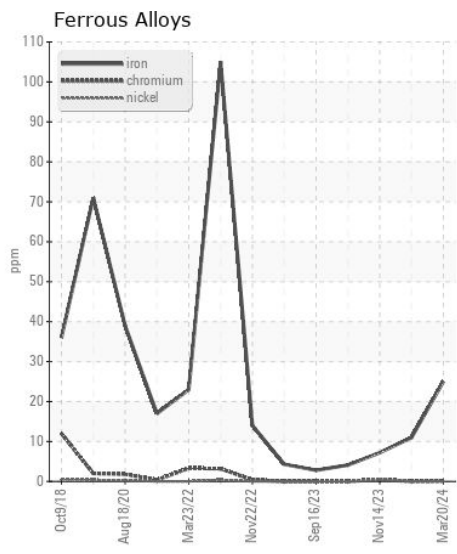
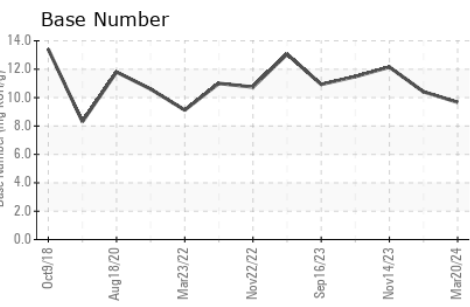
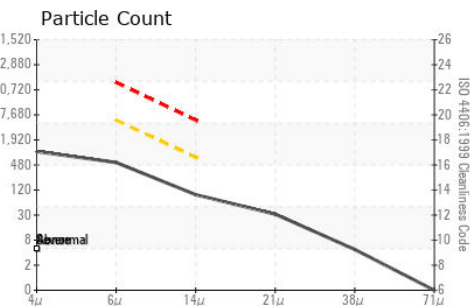
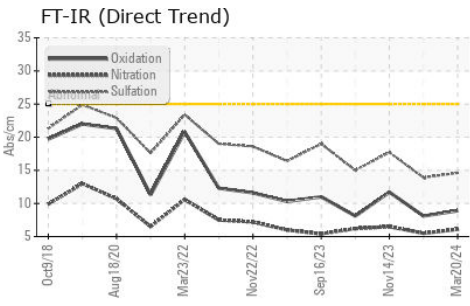
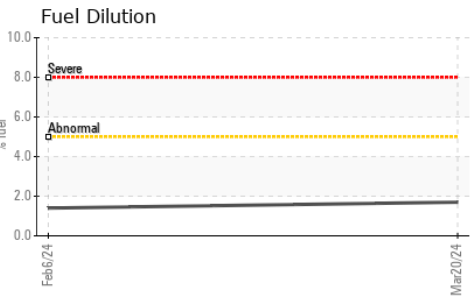
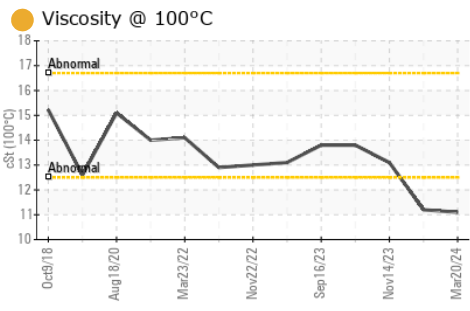
Fuel content negligible. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	10	8	4
Potassium	ppm	ASTM D5185m	>20	2	2	3
Fuel	%	ASTM D3524	>5	1.7	1.4	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.5	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.6	13.9	17.7
Particles >4µm		ASTM D7647		887	4698	1679
Particles >6µm		ASTM D7647	>5000	483	2559	915
Particles >14µm		ASTM D7647	>640	82	436	156
Particles >21µm		ASTM D7647	>160	28	147	52
Particles >38µm		ASTM D7647	>40	4	23	8
Particles >71µm		ASTM D7647	>10	0	2	1
Oil Cleanliness		ISO 4406 (c)	>19/16	16/14	19/16	17/14
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	>0.2	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	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		1	0	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		17	4	15
Calcium	ppm	ASTM D5185m		2817	2609	3892
Phosphorus	ppm	ASTM D5185m		1183	1022	955
Zinc	ppm	ASTM D5185m		1374	1263	1137
Sulfur	ppm	ASTM D5185m		4003	2980	4795
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.9	8.1	11.7
Base Number (BN)	mg KOH/g	ASTM D2896		9.67	10.41	12.15
Visc @ 100°C	cSt	ASTM D445		11.1	11.2	13.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0014200 **Received** : 18 Apr 2024
Lab Number : 06153310 **Tested** : 23 Apr 2024
Unique Number : 10983388 **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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