



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
GUAY SON [CONHER]
Machine Id
MADE IN MEXICO IBACO BM NAUTICO 4
Component
Transmission (Manual)
Fluid
RALYO SAE 50 (60 LTR)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013476	KL0013341	KL0012837
Sample Date		Client Info		20 Jan 2024	25 Oct 2023	20 Sep 2023
Machine Age	hrs	Client Info		18256	17040	16363
Oil Age	hrs	Client Info		1896	680	555
Filter Age	hrs	Client Info		1896	680	555
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	102	24	13
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<1
Lead	ppm	ASTM D5185m	>45	7	5	7
Copper	ppm	ASTM D5185m	>225	39	7	9
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

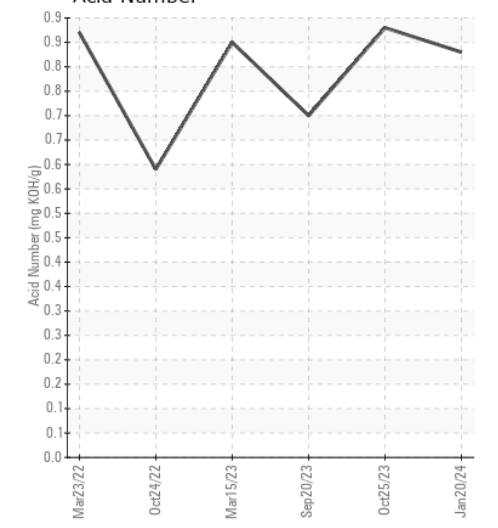
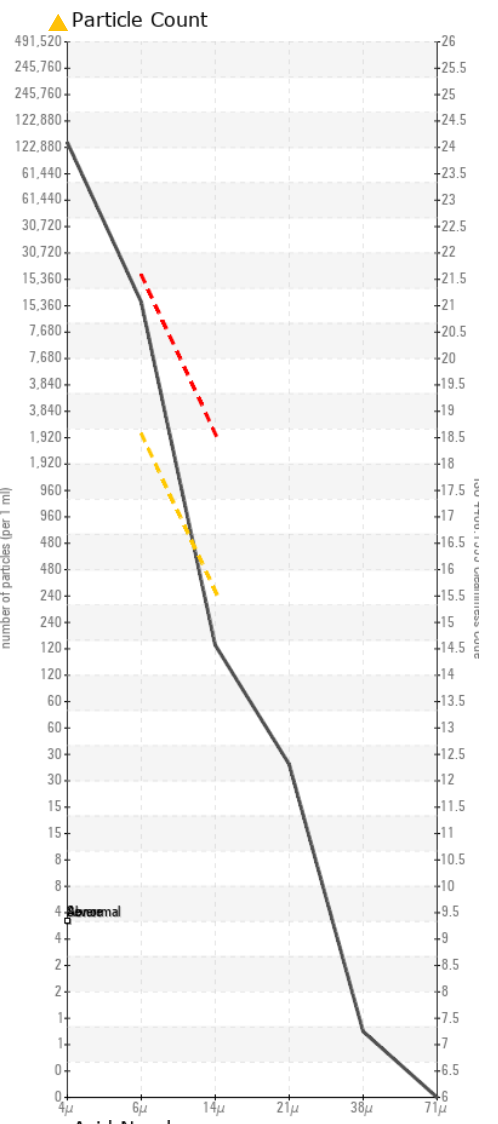
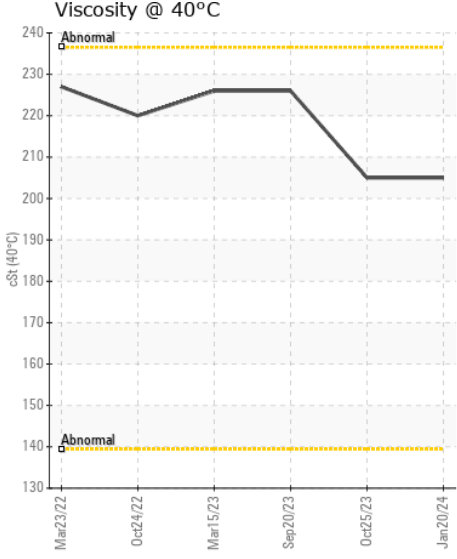
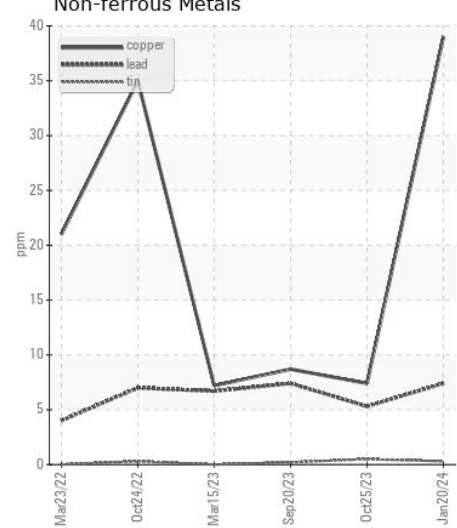
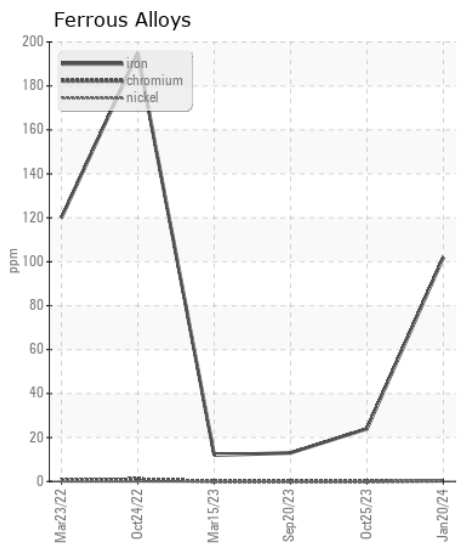
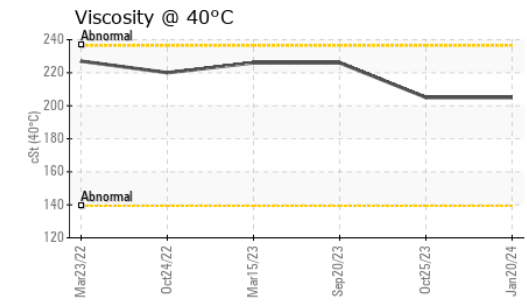
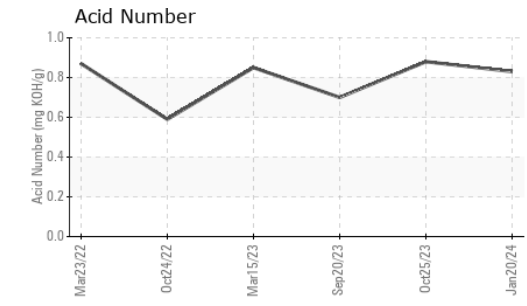
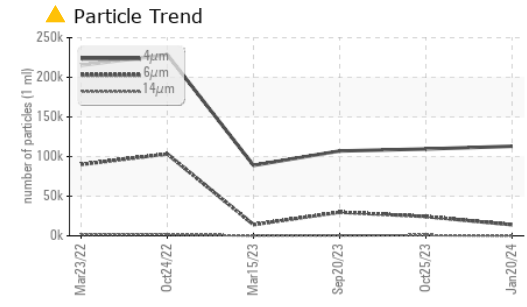
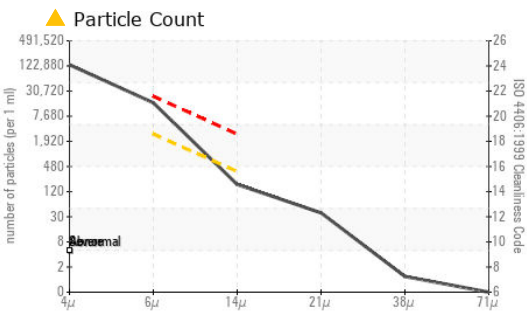
There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

Silicon	ppm	ASTM D5185m	>125	16	9	9
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		113031	109589	107050
Particles >6µm		ASTM D7647	>2500	▲ 13983	▲ 24303	▲ 29751
Particles >14µm		ASTM D7647	>320	157	▲ 796	▲ 495
Particles >21µm		ASTM D7647	>80	33	▲ 165	48
Particles >38µm		ASTM D7647	>20	1	2	4
Particles >71µm		ASTM D7647	>4	0	0	2
Oil Cleanliness		ISO 4406 (c)	>18/15	▲ 21/14	▲ 22/17	▲ 22/16
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 AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		2	2	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		7	8	10
Calcium	ppm	ASTM D5185m		2946	3167	3552
Phosphorus	ppm	ASTM D5185m		886	921	1027
Zinc	ppm	ASTM D5185m		852	773	858
Sulfur	ppm	ASTM D5185m		6327	5852	5774
Acid Number (AN)	mg KOH/g	ASTM D8045		0.83	0.88	0.70
Visc @ 40°C	cSt	ASTM D445		205	205	226



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013476 **Received** : 30 Jan 2024
Lab Number : 06074659 **Diagnosed** : 01 Feb 2024
Unique Number : 10856750 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: PrtCount)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140
 Contact: EDUARDO GARCIA
 egarcia.comsa@gmail.com
 T: (526)622-1581 x:81
 F: x:

Certificate L2367
 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)