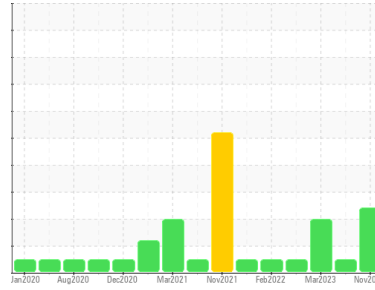




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
GUAY SON [CONHER]
Machine Id
IBACO BM DAGIO I
Component
Bottom Main Engine
Fluid
XTRA REV 15W40 (--- LTR)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. Fuel content negligible.

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		KL0013348	KL0012862	KL0011408
Sample Date	Client Info		01 Nov 2023	21 Sep 2023	30 Mar 2023
Machine Age	hrs	Client Info	13942	13298	13297
Oil Age	hrs	Client Info	645	1	176
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			ATTENTION	NORMAL	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >75	13	3	7
Chromium	ppm	ASTM D5185m >8	<1	0	0
Nickel	ppm	ASTM D5185m >2	<1	0	0
Titanium	ppm	ASTM D5185m >3	0	<1	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >15	2	3	<1
Lead	ppm	ASTM D5185m >18	2	0	0
Copper	ppm	ASTM D5185m >80	2	<1	<1
Tin	ppm	ASTM D5185m >14	0	<1	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	22	291
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	6	8	104
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	22	43	464
Calcium	ppm	ASTM D5185m	2711	2428	1614
Phosphorus	ppm	ASTM D5185m	1131	1068	844
Zinc	ppm	ASTM D5185m	1415	1306	1069
Sulfur	ppm	ASTM D5185m	3834	3739	4200

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	8	7	7
Sodium	ppm	ASTM D5185m >75	2	<1	0
Potassium	ppm	ASTM D5185m >20	3	2	1
Fuel	%	ASTM D3524 >4.0	1.2	<1.0	<1.0

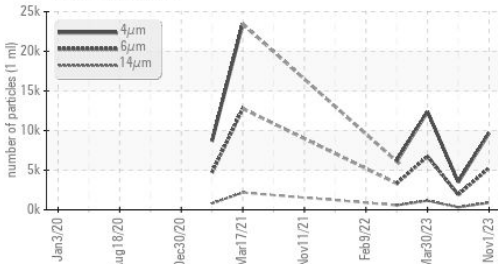
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.8	0.1	0.6
Nitration	Abs/cm	*ASTM D7624 >20	7.4	4.3	6.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	16.8	12.7	20.7

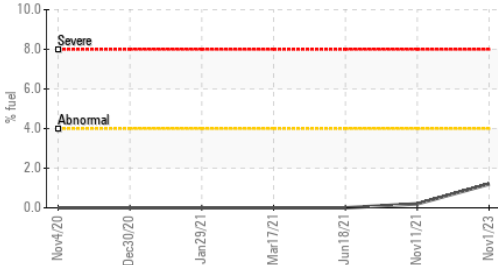


OIL ANALYSIS REPORT

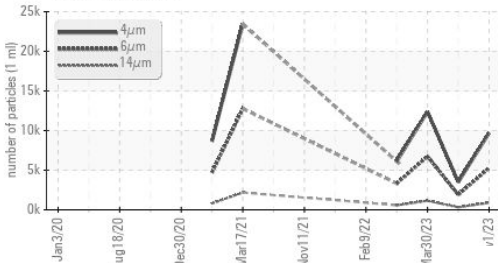
▲ Particle Trend



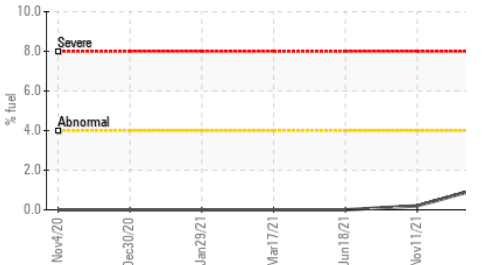
Fuel Dilution



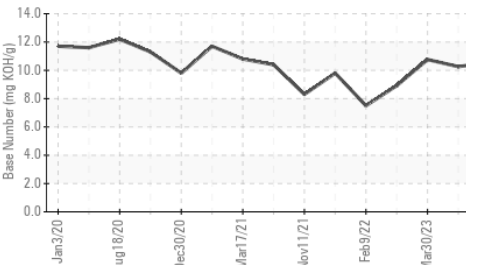
▲ Particle Trend



Fuel Dilution



Base Number



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		9683	3506	12380
Particles >6µm	ASTM D7647	>5000	▲ 5275	1910	▲ 6744
Particles >14µm	ASTM D7647	>640	▲ 898	325	▲ 1148
Particles >21µm	ASTM D7647	>160	▲ 302	109	▲ 387
Particles >38µm	ASTM D7647	>40	▲ 47	17	▲ 60
Particles >71µm	ASTM D7647	>10	5	2	6
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 20/17	18/16	▲ 20/17

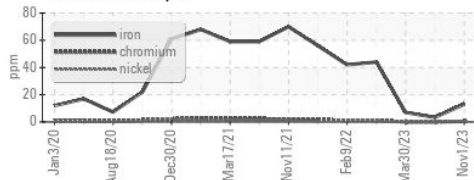
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	8.7	6.5	15.2
Base Number (BN)	mg KOH/g ASTM D2896		10.54	10.26	10.76

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

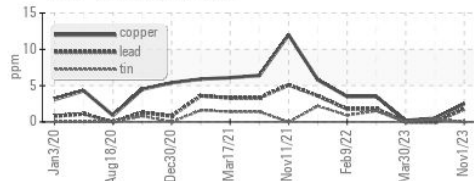
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		▲ 11.5	13.0	13.2

GRAPHS

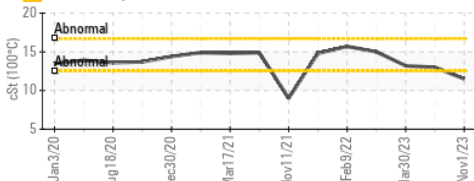
Ferrous Alloys



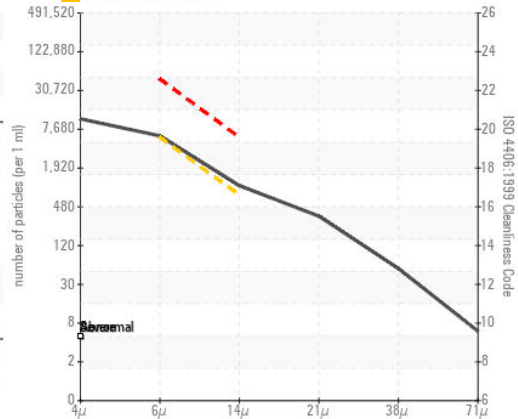
Non-ferrous Metals



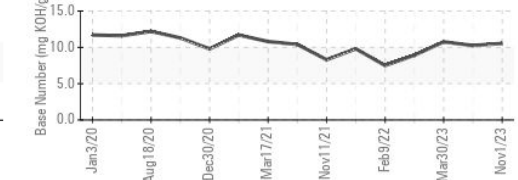
▲ Viscosity @ 100°C



▲ Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013348 **Received** : 07 Nov 2023
Lab Number : 06001122 **Diagnosed** : 14 Nov 2023
Unique Number : 10729482 **Diagnostician** : 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)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140

Contact: EDUARDO GARCIA
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