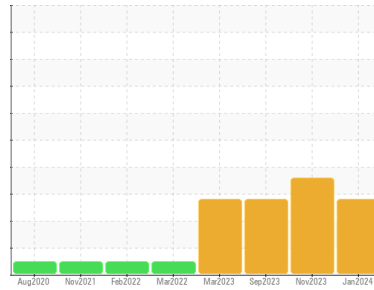




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area
GUAY SON [CONHER]
 Machine Id
IBACO BM DAGIO I
 Component
Auxiliary Power Unit Diesel Engine
 Fluid
XTRA REV 15W40 (8 LTR)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. 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. There is a moderate amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0013480	KL0013349	KL0012863
Sample Date	Client Info		18 Jan 2024	01 Nov 2023	21 Sep 2023
Machine Age	hrs	Client Info	0	0	15131
Oil Age	hrs	Client Info	100	240	24
Oil Changed	Client Info		Not Chngd	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	30	40	9
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	3	5	3
Lead	ppm	ASTM D5185m >40	0	1	0
Copper	ppm	ASTM D5185m >330	2	29	<1
Tin	ppm	ASTM D5185m >15	0	1	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	52	6
Barium	ppm	ASTM D5185m	<1	<1	0
Molybdenum	ppm	ASTM D5185m	0	<1	4
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	6	13	22
Calcium	ppm	ASTM D5185m	2496	3454	2476
Phosphorus	ppm	ASTM D5185m	1076	1066	1070
Zinc	ppm	ASTM D5185m	1186	1366	1311
Sulfur	ppm	ASTM D5185m	3543	3612	3684

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	14	18	8
Sodium	ppm	ASTM D5185m	6	10	5
Potassium	ppm	ASTM D5185m >20	4	3	1
Fuel	%	ASTM D3524 >5	▲ 5.4	▲ 4.9	▲ 2.8

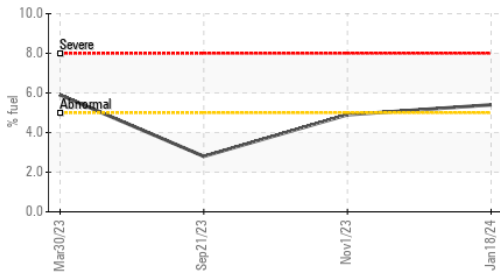
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624 >20	7.2	7.2	4.5
Sulfation	Abs/1mm	*ASTM D7415 >30	15.0	15.7	12.6

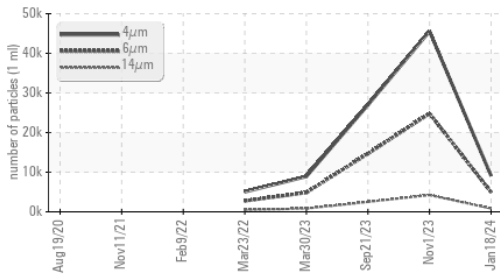


OIL ANALYSIS REPORT

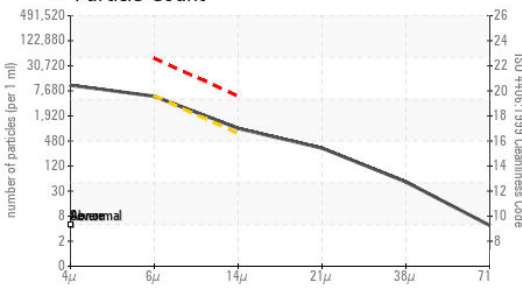
Fuel Dilution



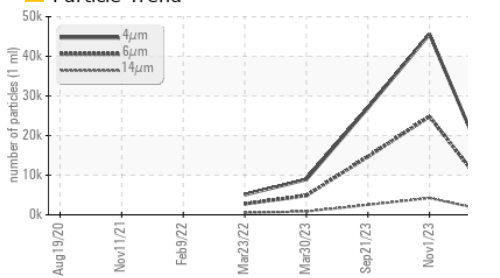
Particle Trend



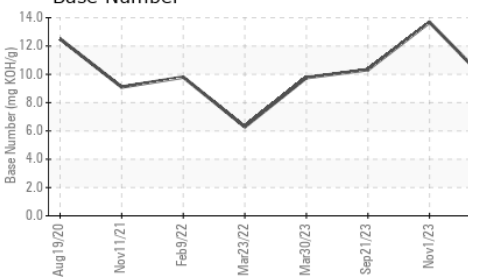
Particle Count



Particle Trend



Base Number



FLUID CLEANLINESS

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		9100	45569	26978
Particles >6µm	ASTM D7647	>5000	4957	▲ 24824	▲ 14696
Particles >14µm	ASTM D7647	>640	▲ 844	▲ 4225	▲ 2501
Particles >21µm	ASTM D7647	>160	▲ 284	▲ 1423	▲ 842
Particles >38µm	ASTM D7647	>40	▲ 44	▲ 220	▲ 130
Particles >71µm	ASTM D7647	>10	4	▲ 22	13
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 19/17	▲ 22/19	▲ 21/19

FLUID DEGRADATION

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	10.4	10.0	6.6
Base Number (BN)	mg KOH/g ASTM D2896		9.23	13.68	10.33

VISUAL

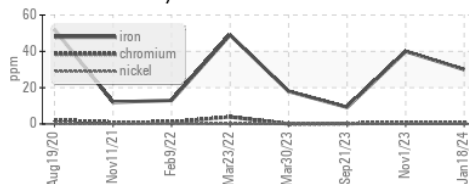
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar *Visual	NONE	NONE	NONE	NONE
Precipitate	scalar *Visual	NONE	NONE	NONE	NONE
Silt	scalar *Visual	NONE	NONE	NONE	NONE
Debris	scalar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	NONE	NONE	NONE
Appearance	scalar *Visual	NORML	NORML	NORML	NORML
Odor	scalar *Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar *Visual	>0.2	NEG	NEG	NEG
Free Water	scalar *Visual		NEG	NEG	NEG

FLUID PROPERTIES

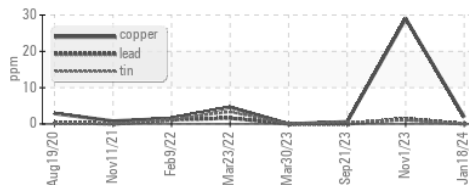
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		▲ 10.9	▲ 12.2	13.0

GRAPHS

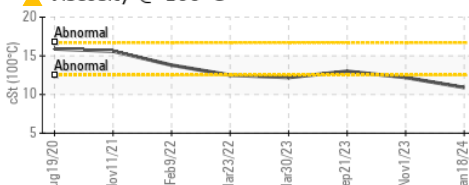
Ferrous Alloys



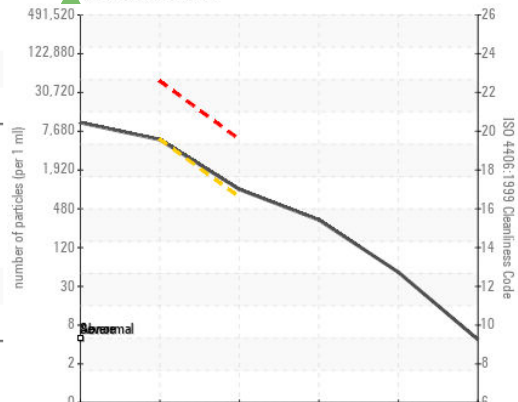
Non-ferrous Metals



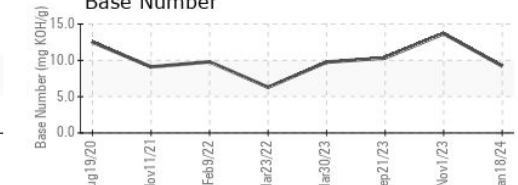
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013480 **Received** : 30 Jan 2024
Lab Number : 06074987 **Diagnosed** : 02 Feb 2024
Unique Number : 10857078 **Diagnostician** : Jonathan Hester

Test Package : MOB 2 (Additional Tests: 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
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 HERMOSILLO,
 MX 83140

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