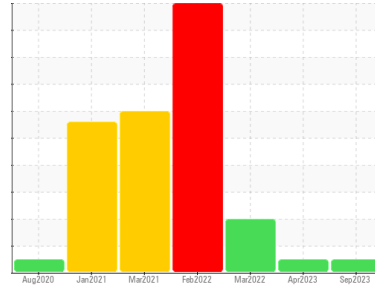




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
GUAY SON [CONHER]
 Machine Id
IBACO NANDO
 Component
Auxiliary Auxiliary Engine
 Fluid
XTRA REV 15W40 (8 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

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

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		KL0012845	KL0012326	KL0009216
Sample Date	Client Info		20 Sep 2023	06 Apr 2023	23 Mar 2022
Machine Age	hrs	Client Info	2040	2016	0
Oil Age	hrs	Client Info	24	250	240
Oil Changed	Client Info		Changed	Not Changd	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	16	11	22
Chromium	ppm	ASTM D5185m >20	<1	0	1
Nickel	ppm	ASTM D5185m >2	0	0	0
Titanium	ppm	ASTM D5185m >2	<1	0	<1
Silver	ppm	ASTM D5185m >2	0	0	1
Aluminum	ppm	ASTM D5185m >20	4	<1	5
Lead	ppm	ASTM D5185m >40	0	0	<1
Copper	ppm	ASTM D5185m >330	7	4	2
Tin	ppm	ASTM D5185m >15	<1	0	1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	325
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	<1	112
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	18	19	558
Calcium	ppm	ASTM D5185m	3801	3949	1574
Phosphorus	ppm	ASTM D5185m	969	958	909
Zinc	ppm	ASTM D5185m	1269	1284	1063
Sulfur	ppm	ASTM D5185m	4059	4461	2827

CONTAMINANTS

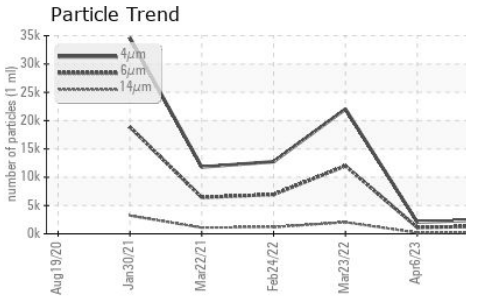
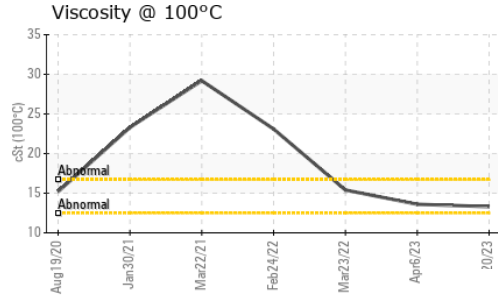
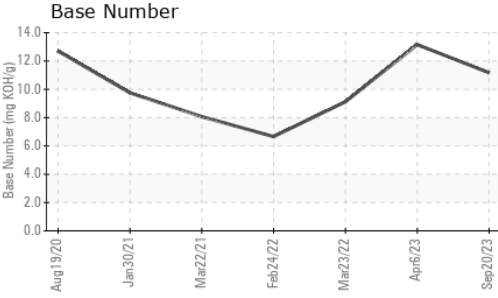
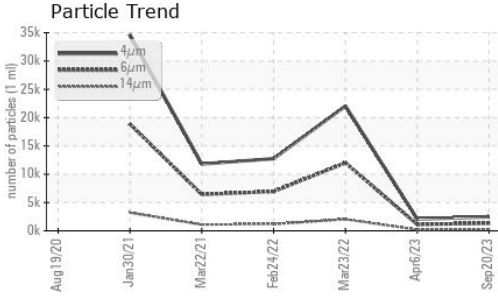
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	4	8
Sodium	ppm	ASTM D5185m	2	<1	14
Potassium	ppm	ASTM D5185m >20	0	2	2

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	7.5	6.7	9.1
Sulfation	Abs./1mm	*ASTM D7415 >30	18.3	17.4	24.4



OIL ANALYSIS REPORT



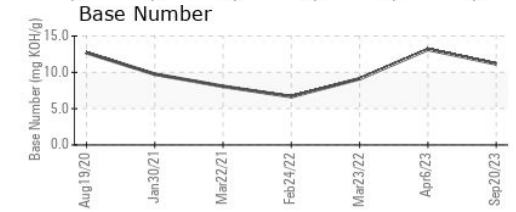
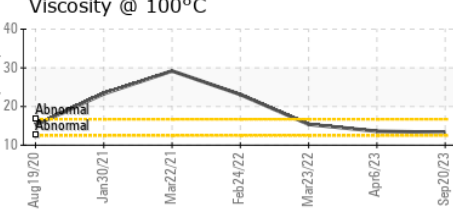
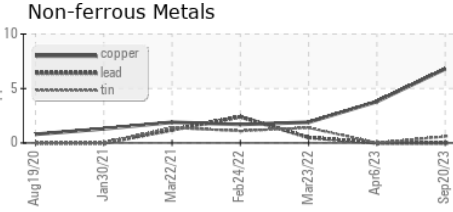
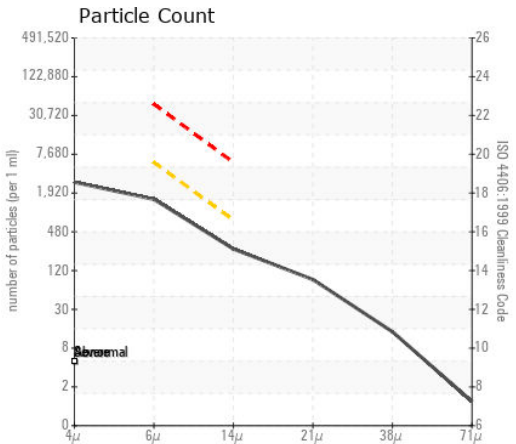
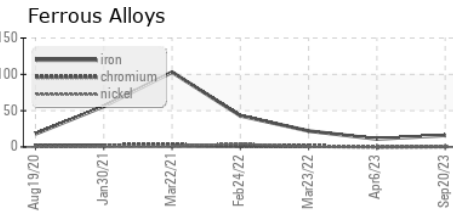
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		2471	2071	22045
Particles >6µm	ASTM D7647	>5000	1346	1128	▲ 12009
Particles >14µm	ASTM D7647	>640	229	192	▲ 2044
Particles >21µm	ASTM D7647	>160	77	65	▲ 688
Particles >38µm	ASTM D7647	>40	12	10	▲ 106
Particles >71µm	ASTM D7647	>10	1	1	▲ 11
Oil Cleanliness	ISO 4406 (c)	>19/16	18/15	17/15	▲ 21/18

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	12.8	11.5	20.9
Base Number (BN)	mg KOH/g ASTM D2896		11.17	13.16	9.12

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		13.3	13.6	15.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012845 **Received** : 29 Sep 2023
Lab Number : 05964796 **Diagnosed** : 03 Oct 2023
Unique Number : 10671347 **Diagnostician** : Angela Borella
Test Package : MOB 2 (Additional Tests: 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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