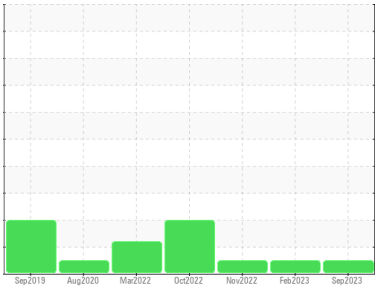
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
GUAY SON [CONHER]
Machine Id
IBACO BM CACHOS
Component
Bottom 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		**KL0012842**	KL0010231	KL0011264
Sample Date		Client Info		**20 Sep 2023**	17 Feb 2023	22 Nov 2022
Machine Age	hrs	Client Info		**10022**	9998	8488
Oil Age	hrs	Client Info		**24**	120	286
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

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	**37**	18	32
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185m	>2	**<1**	0	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**7**	2	4
Lead	ppm	ASTM D5185m	>40	**6**	2	2
Copper	ppm	ASTM D5185m	>330	**27**	9	3
Tin	ppm	ASTM D5185m	>15	**1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**2**	2	4
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**4**	3	3
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**16**	16	15
Calcium	ppm	ASTM D5185m		**3499**	3484	3671
Phosphorus	ppm	ASTM D5185m		**1296**	1233	1372
Zinc	ppm	ASTM D5185m		**1613**	1517	1625
Sulfur	ppm	ASTM D5185m		**3969**	4357	4996

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**9**	7	9
Sodium	ppm	ASTM D5185m		**3**	3	1
Potassium	ppm	ASTM D5185m	>20	**2**	<1	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.5**	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	**12.7**	10.3	13.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	**21.7**	19.2	22.2

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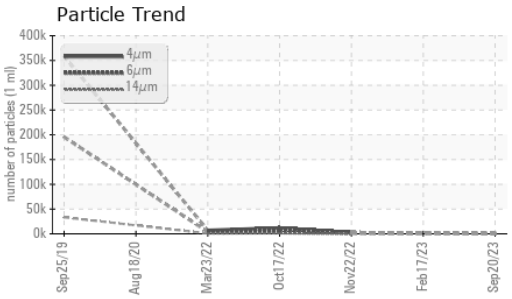
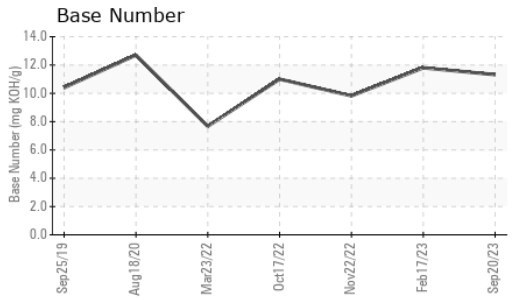
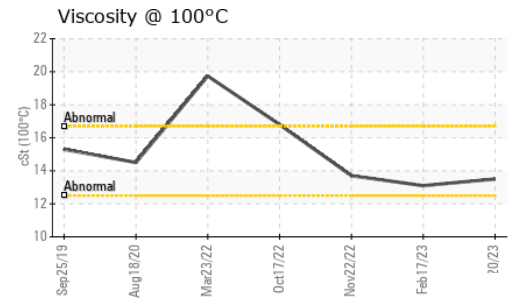
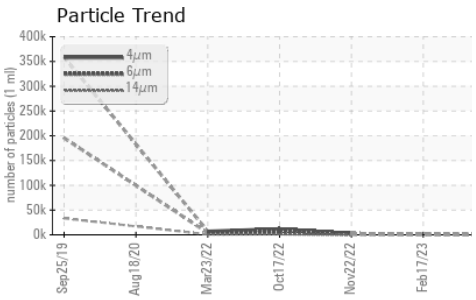








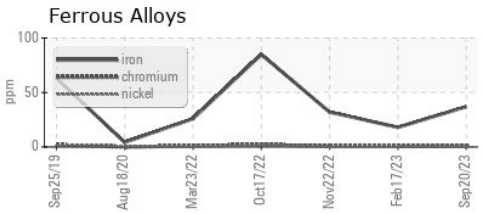
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**583**	---	2497
Particles >6µm		ASTM D7647	>5000	**318**	---	1360
Particles >14µm		ASTM D7647	>640	**54**	---	231
Particles >21µm		ASTM D7647	>160	**18**	---	78
Particles >38µm		ASTM D7647	>40	**3**	---	12
Particles >71µm		ASTM D7647	>10	**0**	---	1
Oil Cleanliness		ISO 4406 (c)	>19/16	**15/13**	---	18/15

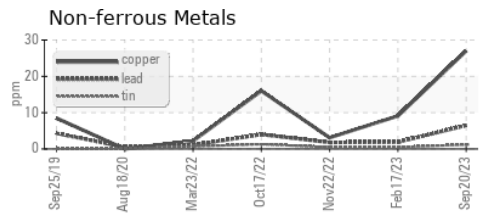
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**17.3**	13.5	17.5
Base Number (BN)	mg KOH/g	ASTM D2896		**11.32**	11.8	9.82

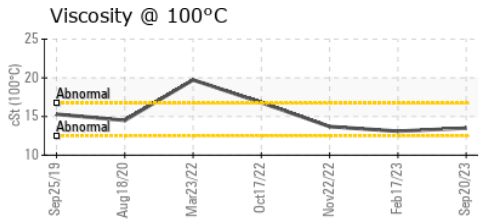
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

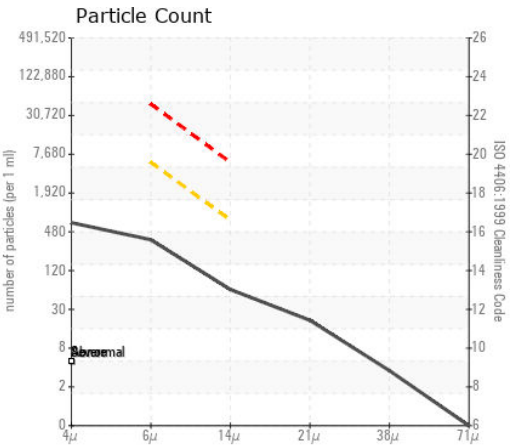
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**13.5**	13.1	13.7

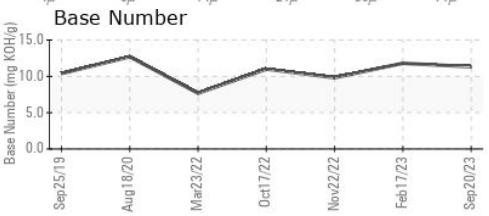
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012842 **Received** : 29 Sep 2023
Lab Number : 05964797 **Diagnosed** : 03 Oct 2023
Unique Number : 10671348 **Diagnostician** : Angela Borella
Test Package : MOB 2 (Additional Tests: PrtCount)

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)

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