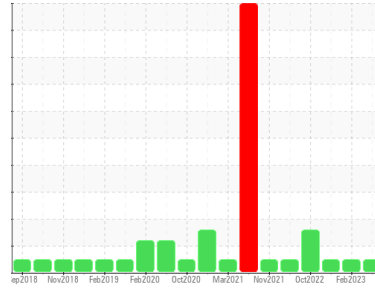




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
GUAY SON [CONHER]
 Machine Id
IBACO ARCENIO VICENTE MAIN
 Component
Diesel Engine
 Fluid
XTRA REV 15W40 (160 LTR)

DIAGNOSIS

Recommendation

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		KL0012847	KL0010226	KL0011284
Sample Date	Client Info		20 Sep 2023	17 Feb 2023	22 Nov 2022
Machine Age	hrs	Client Info	16159	15690	14945
Oil Age	hrs	Client Info	2	1216	471
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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	3	17	8
Chromium	ppm	ASTM D5185m >20	0	1	<1
Nickel	ppm	ASTM D5185m >2	0	<1	0
Titanium	ppm	ASTM D5185m >2	<1	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	3	<1	2
Lead	ppm	ASTM D5185m >40	0	1	1
Copper	ppm	ASTM D5185m >330	<1	3	2
Tin	ppm	ASTM D5185m >15	<1	<1	<1
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	104	86	184
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	17	68	72
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	92	267	318
Calcium	ppm	ASTM D5185m	2344	2412	2431
Phosphorus	ppm	ASTM D5185m	1126	1075	1112
Zinc	ppm	ASTM D5185m	1374	1298	1296
Sulfur	ppm	ASTM D5185m	3788	4192	4737

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	9	7	7
Sodium	ppm	ASTM D5185m	<1	17	4
Potassium	ppm	ASTM D5185m >20	5	36	1

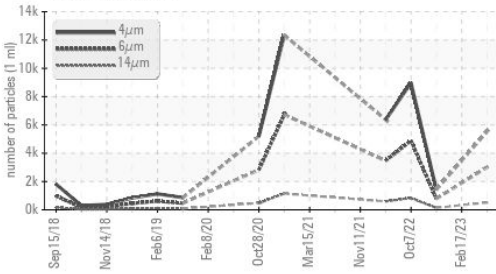
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.6	0.4
Nitration	Abs/cm	*ASTM D7624 >20	4.1	8.7	7.3
Sulfation	Abs./1mm	*ASTM D7415 >30	14.2	20.4	21.0

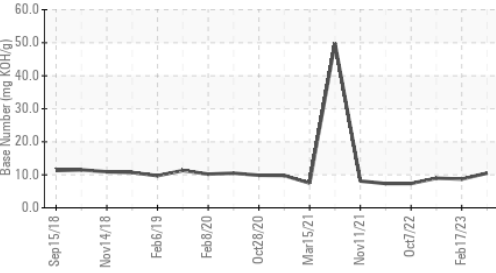


OIL ANALYSIS REPORT

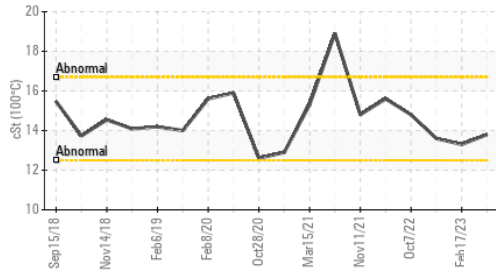
Particle Trend



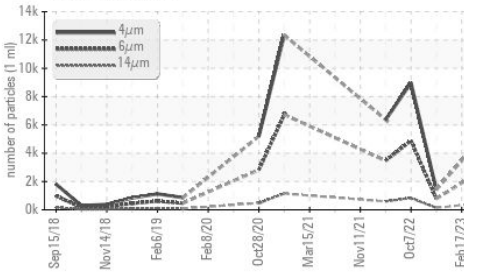
Base Number



Viscosity @ 100°C



Particle Trend



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		5533	---	1433
Particles >6µm	ASTM D7647	>5000	3014	---	781
Particles >14µm	ASTM D7647	>640	513	---	133
Particles >21µm	ASTM D7647	>160	173	---	45
Particles >38µm	ASTM D7647	>40	27	---	7
Particles >71µm	ASTM D7647	>10	3	---	1
Oil Cleanliness	ISO 4406 (c)	>19/16	19/16	---	17/14

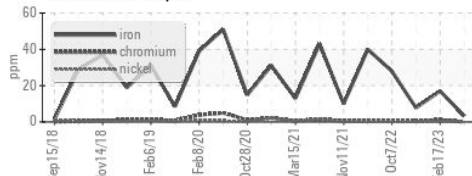
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	7.6	14.4	14.3
Base Number (BN)	mg KOH/g ASTM D2896		10.50	8.7	8.98

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

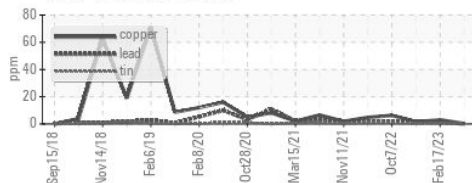
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		13.8	13.3	13.6

GRAPHS

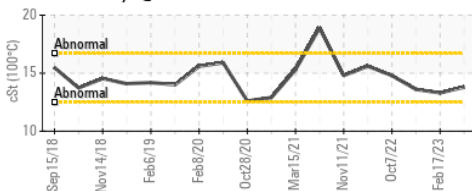
Ferrous Alloys



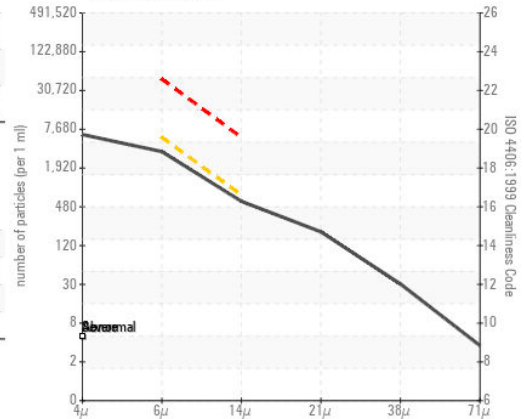
Non-ferrous Metals



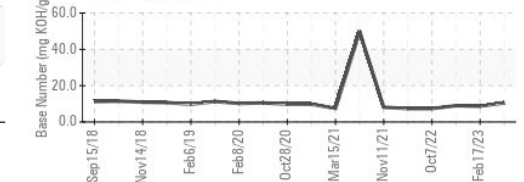
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012847 **Received** : 29 Sep 2023
Lab Number : **05964791** **Diagnosed** : 03 Oct 2023
Unique Number : 10671342 **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)

CONOR
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 HERMOSILLO,
 MX 83140

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