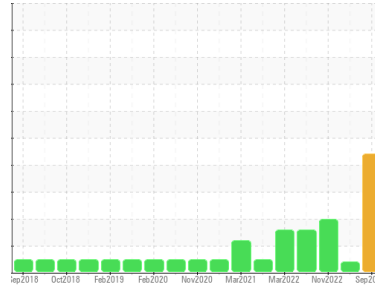




OIL ANALYSIS REPORT

Sample Rating Trend



Area
GUAY SON [CONHER]
 Machine Id
IBACO ARCENIO VICENTE AUX-1
 Component
Diesel Engine
 Fluid
XTRA REV 15W40 (8 LTR)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. 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 high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KL0012848	KL0010227	KL0011285
Sample Date	Client Info	20 Sep 2023	17 Feb 2023	22 Nov 2022
Machine Age	hrs	21796	21052	19852
Oil Age	hrs	24	672	222
Oil Changed	Client Info	Changed	Not Changd	Not Changd
Sample Status		ABNORMAL	ATTENTION	ATTENTION

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	28	83	42
Chromium	ppm ASTM D5185m >20	4	2	2
Nickel	ppm ASTM D5185m >4	0	<1	0
Titanium	ppm ASTM D5185m	<1	0	<1
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	▲ 6	2	3
Lead	ppm ASTM D5185m >40	4	<1	2
Copper	ppm ASTM D5185m >330	14	6	2
Tin	ppm ASTM D5185m >15	2	<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	125	<1	4
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	40	2	3
Manganese	ppm ASTM D5185m	<1	1	<1
Magnesium	ppm ASTM D5185m	181	12	23
Calcium	ppm ASTM D5185m	2399	2791	3366
Phosphorus	ppm ASTM D5185m	1095	681	960
Zinc	ppm ASTM D5185m	1379	662	1125
Sulfur	ppm ASTM D5185m	3536	4273	5081

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	▲ 70	7	8
Sodium	ppm ASTM D5185m	4	3	10
Potassium	ppm ASTM D5185m >20	2	0	1

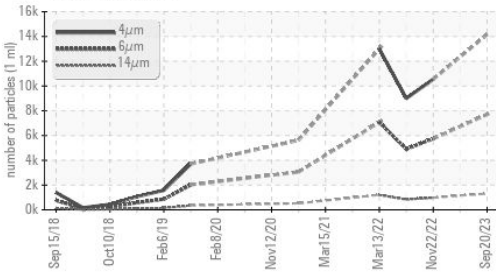
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.3	0.6
Nitration	Abs/cm *ASTM D7624 >20	6.3	9.6	13.0
Sulfation	Abs./1mm *ASTM D7415 >30	16.3	18.7	23.0

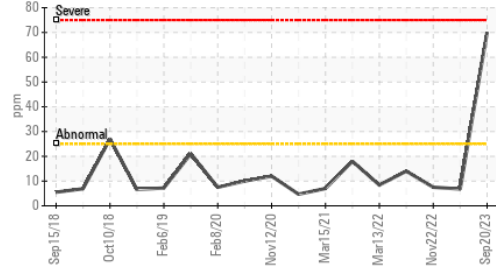


OIL ANALYSIS REPORT

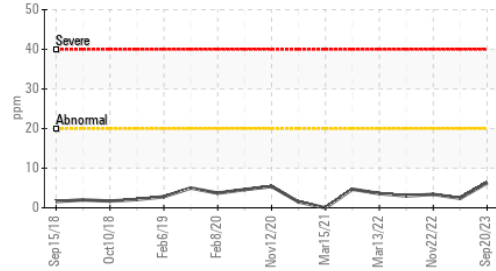
Particle Trend



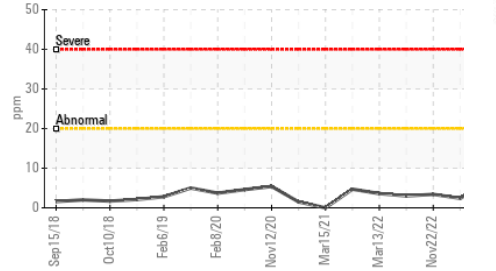
Silicon (ppm)



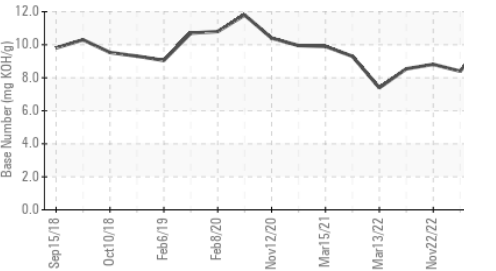
Aluminum (ppm)



Aluminum (ppm)



Base Number



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		14154	---	10548
Particles >6µm	ASTM D7647	>5000	▲ 7711	---	▲ 5746
Particles >14µm	ASTM D7647	>640	▲ 1312	---	▲ 978
Particles >21µm	ASTM D7647	>160	▲ 442	---	▲ 329
Particles >38µm	ASTM D7647	>40	▲ 68	---	▲ 51
Particles >71µm	ASTM D7647	>10	7	---	5
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 20/18	---	▲ 20/17

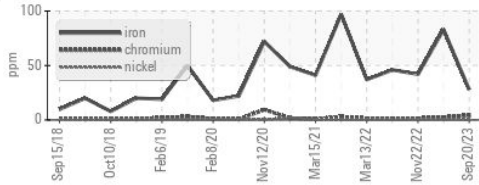
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	10.7	15.7	20.8
Base Number (BN)	mg KOH/g ASTM D2896		10.29	8.4	8.81

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

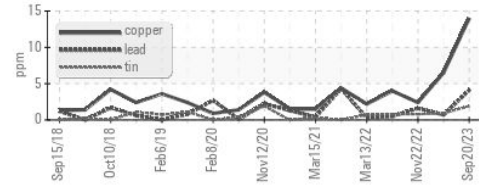
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		13.1	▲ 19.7	16.6

GRAPHS

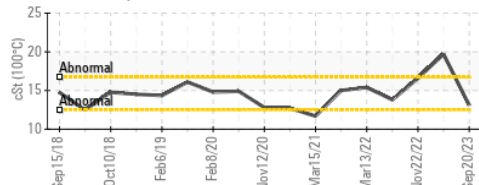
Ferrous Alloys



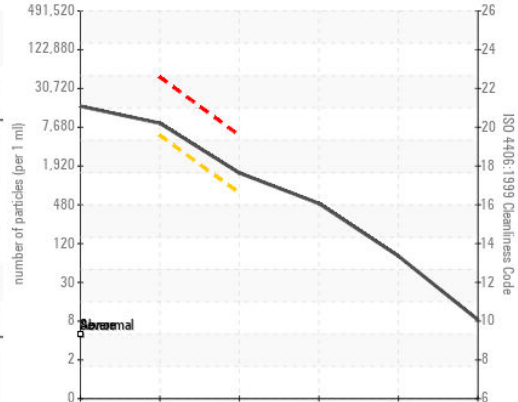
Non-ferrous Metals



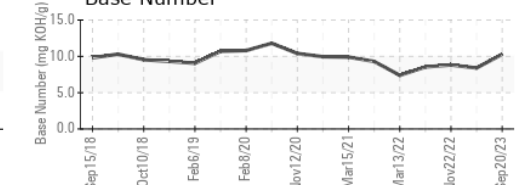
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012848 **Received** : 29 Sep 2023
Lab Number : 05964794 **Diagnosed** : 03 Oct 2023
Unique Number : 10671345 **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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