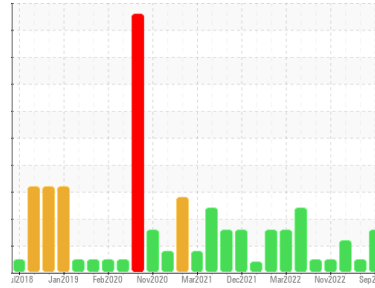




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

Fluid Condition

The oil viscosity is higher than normal. 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		KL0012876	KL0011397	KL0010233
Sample Date	Client Info		21 Sep 2023	06 Apr 2023	17 Feb 2023
Machine Age	hrs	Client Info	19645	19617	19617
Oil Age	hrs	Client Info	28	90	88
Oil Changed	Client Info		Changed	Not Changd	Not Changd
Sample Status			ATTENTION	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	▲ 3.3
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	8	6	9
Chromium	ppm	ASTM D5185m >20	2	<1	<1
Nickel	ppm	ASTM D5185m >4	0	0	<1
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	4	<1	<1
Lead	ppm	ASTM D5185m >40	<1	0	<1
Copper	ppm	ASTM D5185m >330	<1	2	<1
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	0	322	63
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	1	100	22
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	14	522	113
Calcium	ppm	ASTM D5185m	3381	1551	2907
Phosphorus	ppm	ASTM D5185m	867	845	1186
Zinc	ppm	ASTM D5185m	1015	1086	1436
Sulfur	ppm	ASTM D5185m	5411	3501	4728

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	9	7
Sodium	ppm	ASTM D5185m	2	2	<1
Potassium	ppm	ASTM D5185m >20	0	2	0

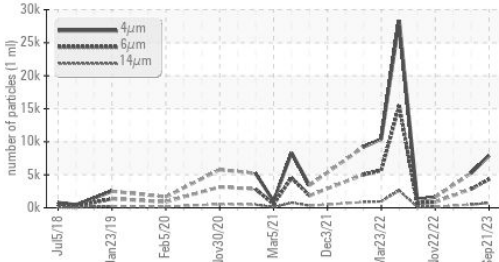
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	6.1	6.7	7.5
Sulfation	Abs./1mm	*ASTM D7415 >30	15.4	20.9	17.2

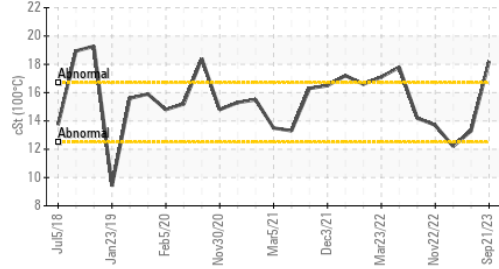


OIL ANALYSIS REPORT

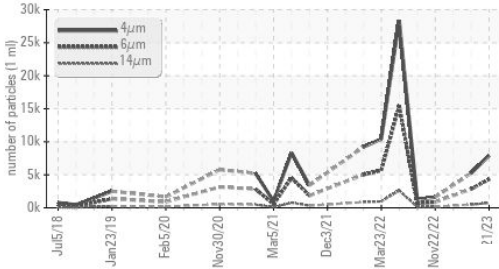
▲ Particle Trend



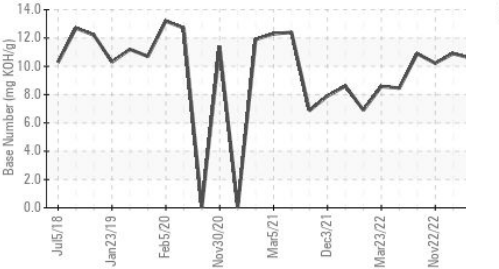
▲ Viscosity @ 100°C



▲ Particle Trend



Base Number



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		7908	5237	---
Particles >6µm	ASTM D7647	>5000	4308	2853	---
Particles >14µm	ASTM D7647	>640	▲ 733	486	---
Particles >21µm	ASTM D7647	>160	▲ 247	164	---
Particles >38µm	ASTM D7647	>40	38	25	---
Particles >71µm	ASTM D7647	>10	4	3	---
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 19/17	19/16	---

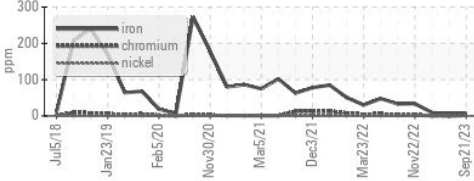
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	7.1	17.8	11.7
Base Number (BN)	mg KOH/g ASTM D2896		10.85	10.57	10.9

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

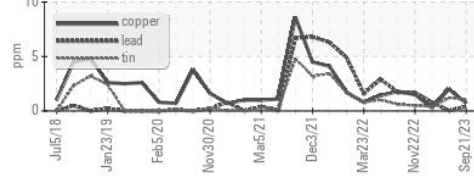
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		▲ 18.2	13.3	▲ 12.2

GRAPHS

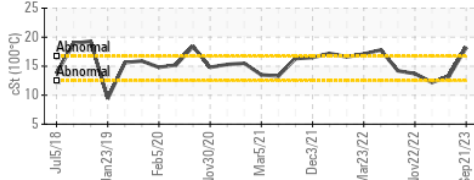
▲ Ferrous Alloys



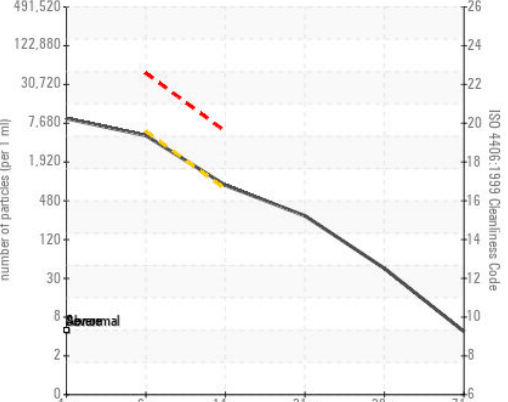
▲ Non-ferrous Metals



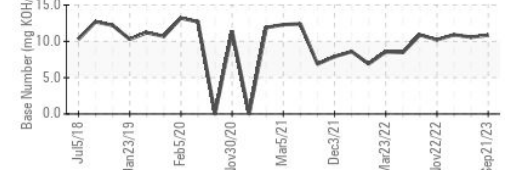
▲ Viscosity @ 100°C



▲ Particle Count



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012876 **Received** : 29 Sep 2023
Lab Number : 05964765 **Diagnosed** : 02 Oct 2023
Unique Number : 10671316 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: PrtCount)

CONOR
 JUAREZ 348
 HERMOSILLO,
 MX 83140
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 egarcia.comsa@gmail.com
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 F: x:

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)