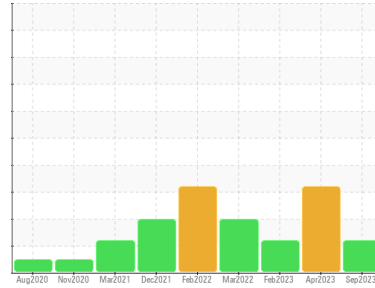




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
GUAY SON [CONHER]
 Machine Id
Maquina principal Rene
 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

There is a moderate amount of particulates present in the oil. Fuel content negligible.

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	KL0012866	KL0012328	KL0010241	
Sample Date	Client Info	21 Sep 2023	06 Apr 2023	23 Feb 2023	
Machine Age	hrs	Client Info	10561	10556	10276
Oil Age	hrs	Client Info	5	260	150
Oil Changed	Client Info	Not Changed	Not Changed	Not Changed	
Sample Status		ATTENTION	ABNORMAL	ABNORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >100	7	19	13
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	3	<1	2
Lead	ppm	ASTM D5185m >40	<1	0	<1
Copper	ppm	ASTM D5185m >330	5	1	2
Tin	ppm	ASTM D5185m >15	<1	0	<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	4	122	<1
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	2	49	1
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	13	218	8
Calcium	ppm	ASTM D5185m	2550	2203	3053
Phosphorus	ppm	ASTM D5185m	1098	984	1207
Zinc	ppm	ASTM D5185m	1334	1233	1449
Sulfur	ppm	ASTM D5185m	3789	4209	4963

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	12	6	6
Sodium	ppm	ASTM D5185m	<1	2	2
Potassium	ppm	ASTM D5185m >20	2	6	2
Fuel	%	ASTM D3524 >5	2.2	▲ 7.7	▲ 6.3

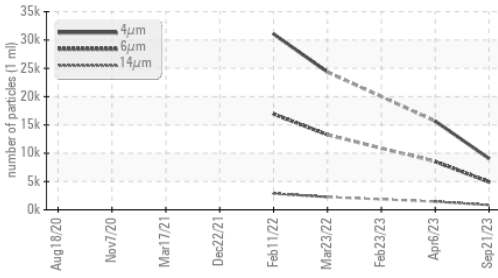
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	0.1	0.4	0.3
Nitration	Abs/cm	*ASTM D7624 >20	4.6	8.9	8.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	12.6	19.7	16.8

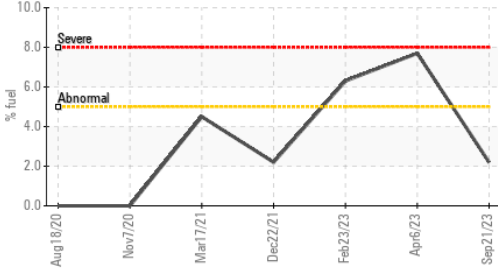


OIL ANALYSIS REPORT

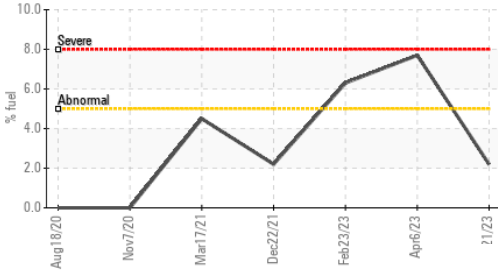
▲ Particle Trend



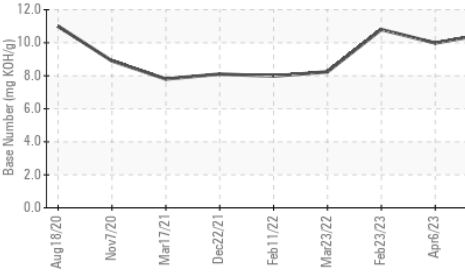
Fuel Dilution



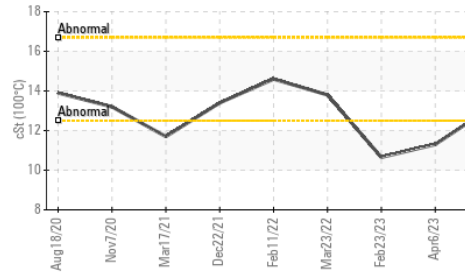
Fuel Dilution



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		9048	15668	---
Particles >6µm	ASTM D7647	>5000	4929	▲ 8535	---
Particles >14µm	ASTM D7647	>640	▲ 839	▲ 1453	---
Particles >21µm	ASTM D7647	>160	▲ 283	▲ 489	---
Particles >38µm	ASTM D7647	>40	44	▲ 76	---
Particles >71µm	ASTM D7647	>10	4	8	---
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 19/17	▲ 20/18	---

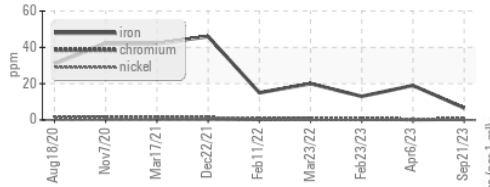
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	6.2	14.4	8.9
Base Number (BN)	mg KOH/g ASTM D2896		10.56	9.98	10.8

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

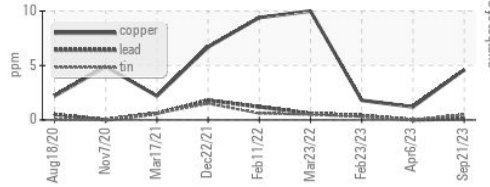
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		13.1	▲ 11.3	▲ 10.65

GRAPHS

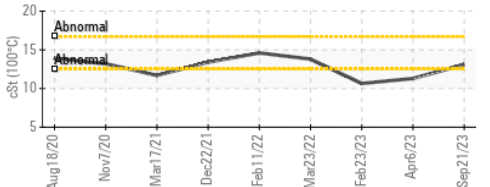
Ferrous Alloys



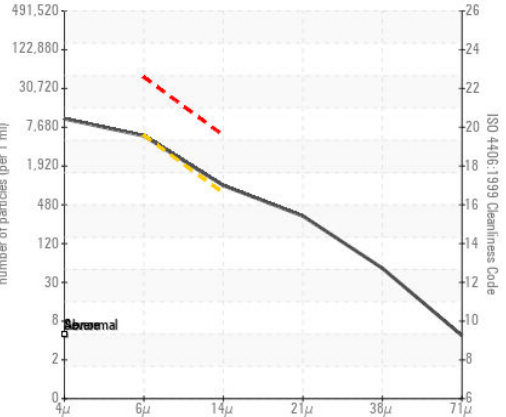
Non-ferrous Metals



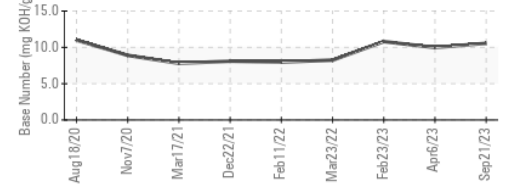
Viscosity @ 100°C



▲ Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012866 **Received** : 29 Sep 2023
Lab Number : 05964773 **Diagnosed** : 03 Oct 2023
Unique Number : 10671324 **Diagnostician** : Angela Borella
Test Package : MOB 2 (Additional Tests: PercentFuel, 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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 F: x: