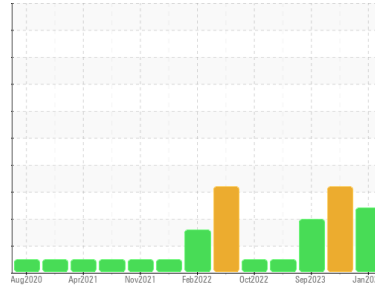




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
GUAY SON [CONHER]
 Machine Id
Maquina principal Mantito I
 Component
Auxiliary Auxiliary Engine
 Fluid
XTRA REV 15W40 (8 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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. 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	KL0013474	KL0013325	KL0012815	
Sample Date	Client Info	24 Jan 2024	24 Oct 2023	16 Sep 2023	
Machine Age	hrs	Client Info	0	16551	15840
Oil Age	hrs	Client Info	48	96	60
Oil Changed	Client Info	Not Chngd	Changed	Not Chngd	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	6	18	13
Chromium	ppm ASTM D5185m >20	<1	0	<1
Nickel	ppm ASTM D5185m >2	0	0	0
Titanium	ppm ASTM D5185m >2	0	0	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >20	2	2	<1
Lead	ppm ASTM D5185m >40	0	0	1
Copper	ppm ASTM D5185m >330	0	<1	2
Tin	ppm ASTM D5185m >15	0	0	<1
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	70	0
Barium	ppm ASTM D5185m	<1	0	0
Molybdenum	ppm ASTM D5185m	0	13	1
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m	8	68	10
Calcium	ppm ASTM D5185m	2646	2213	3079
Phosphorus	ppm ASTM D5185m	1192	1036	972
Zinc	ppm ASTM D5185m	1317	1226	1132
Sulfur	ppm ASTM D5185m	3781	2986	6278

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	9	7	7
Sodium	ppm ASTM D5185m	0	<1	<1
Potassium	ppm ASTM D5185m >20	4	2	3
Fuel	% ASTM D3524 >4.0	1.6	▲ 7.2	<1.0

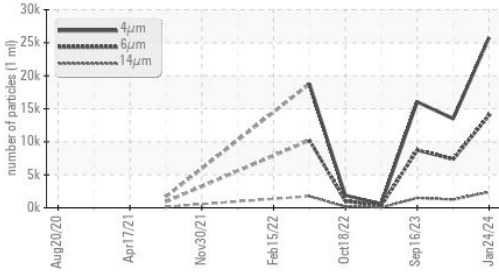
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0.6	0	0
Nitration	Abs/cm *ASTM D7624 >20	4.8	5.2	7.7
Sulfation	Abs/1mm *ASTM D7415 >30	13.8	21.5	18.3

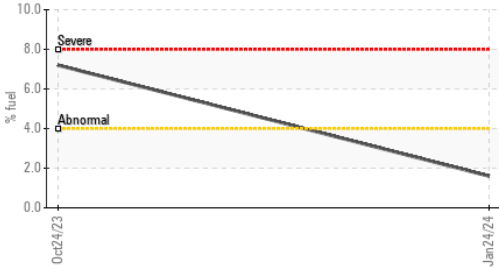


OIL ANALYSIS REPORT

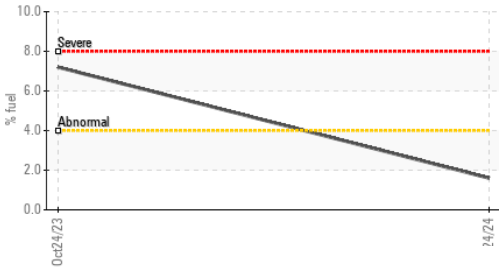
▲ Particle Trend



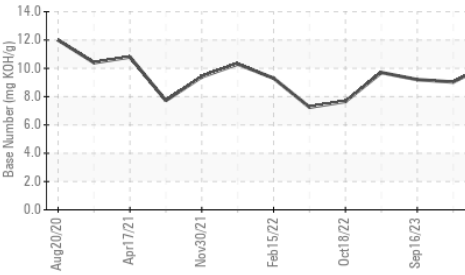
Fuel Dilution



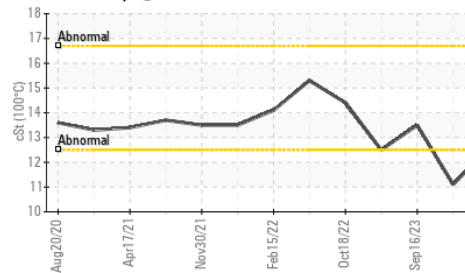
Fuel Dilution



Base Number



Viscosity @ 100°C



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		25751	13476	16042
Particles >6µm	ASTM D7647	>5000	▲ 14028	▲ 7341	▲ 8739
Particles >14µm	ASTM D7647	>640	▲ 2387	▲ 1249	▲ 1487
Particles >21µm	ASTM D7647	>160	▲ 804	▲ 421	▲ 501
Particles >38µm	ASTM D7647	>40	▲ 124	▲ 65	▲ 77
Particles >71µm	ASTM D7647	>10	▲ 13	7	8
Oil Cleanliness	ISO 4406 (c)	>19/16	▲ 21/18	▲ 20/17	▲ 20/18

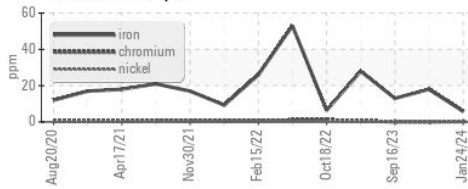
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm *ASTM D7414	>25	6.7	18.9	11.2
Base Number (BN)	mg KOH/g ASTM D2896		10.30	9.03	9.20

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

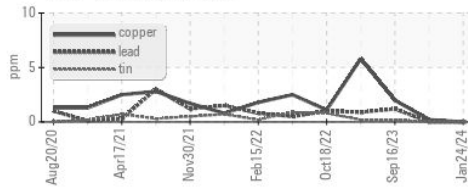
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D445		12.6	▲ 11.1	13.5

GRAPHS

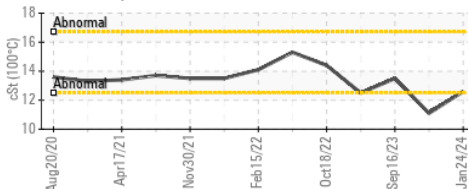
Ferrous Alloys



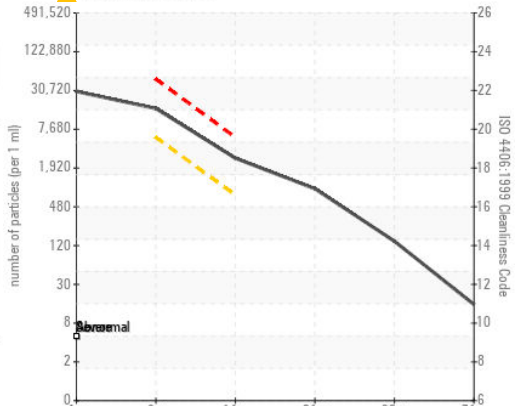
Non-ferrous Metals



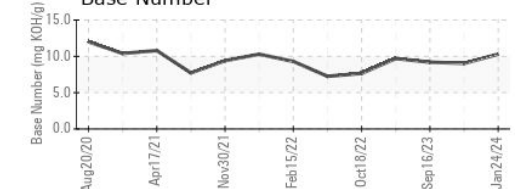
Viscosity @ 100°C



▲ Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013474 **Received** : 30 Jan 2024
Lab Number : 06075006 **Diagnosed** : 02 Feb 2024
Unique Number : 10857097 **Diagnostician** : Jonathan Hester
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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