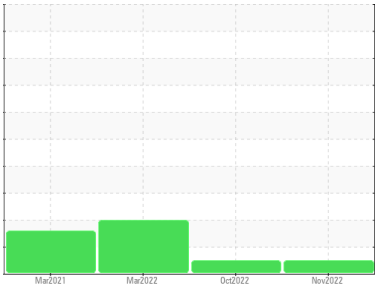
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
GUAY SON [CONHER]
Machine Id
MAIN ENGINE
Component
Auxiliary Engine
Fluid
Xtra Rev 15W40 (8 LTR)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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		**KL0011231**	KL0010142	KL0009212
Sample Date		Client Info		**12 Nov 2022**	05 Oct 2022	23 Mar 2022
Machine Age	hrs	Client Info		**11558**	10542	0
Oil Age	hrs	Client Info		**1016**	430	0
Oil Changed		Client Info		**Not Changd**	Not Changd	N/A
Sample Status				**NORMAL**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	**<1.0**	<1.0	<1.0
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	**40**	31	5
Chromium	ppm	ASTM D5185m	>20	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**<1**	0	0
Titanium	ppm	ASTM D5185m	>2	**<1**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**2**	2	2
Lead	ppm	ASTM D5185m	>40	**4**	3	0
Copper	ppm	ASTM D5185m	>330	**4**	3	<1
Tin	ppm	ASTM D5185m	>15	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

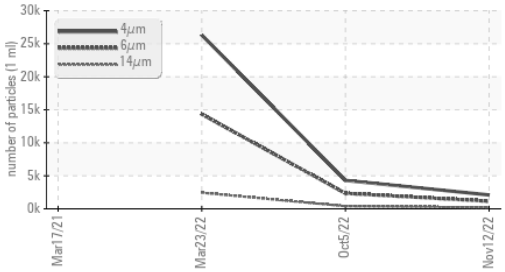
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**6**	46	303
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**12**	61	105
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**54**	257	525
Calcium	ppm	ASTM D5185m		**2847**	1989	1388
Phosphorus	ppm	ASTM D5185m		**1060**	918	815
Zinc	ppm	ASTM D5185m		**1315**	1113	964
Sulfur	ppm	ASTM D5185m		**4121**	3647	2569

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**7**	6	6
Sodium	ppm	ASTM D5185m		**2**	<1	2
Potassium	ppm	ASTM D5185m	>20	**3**	2	0

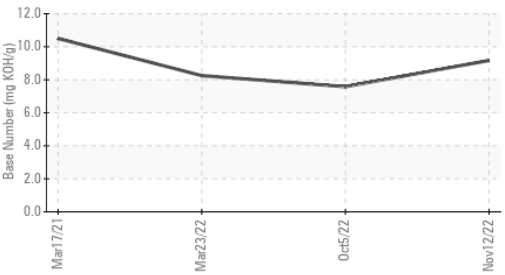
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.9**	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**10.8**	9.8	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.8**	20.9	22.5

OIL ANALYSIS REPORT

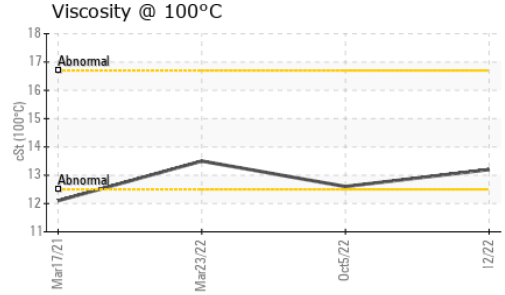
Particle Trend



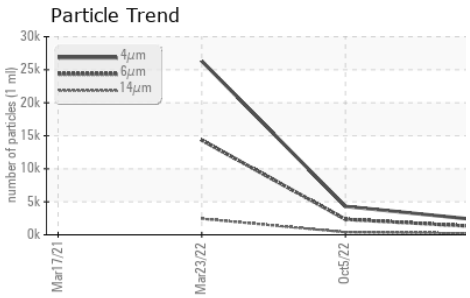
Base Number



Viscosity @ 100°C



Particle Trend



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**2101**	4304	26319
Particles >6µm		ASTM D7647	>5000	**1145**	2345	▲ 14337
Particles >14µm		ASTM D7647	>640	**195**	399	▲ 2440
Particles >21µm		ASTM D7647	>160	**66**	134	▲ 822
Particles >38µm		ASTM D7647	>40	**10**	21	▲ 127
Particles >71µm		ASTM D7647	>10	**1**	2	▲ 13
Oil Cleanliness		ISO 4406 (c)	>19/16	**17/15**	18/16	▲ 21/18

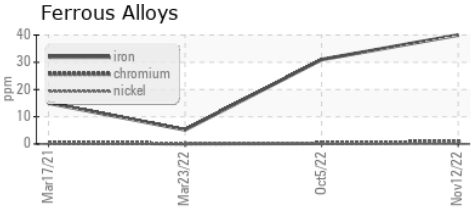
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**14.5**	16.5	17.9
Base Number (BN)	mg KOH/g	ASTM D2896		**9.17**	7.58	8.25

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

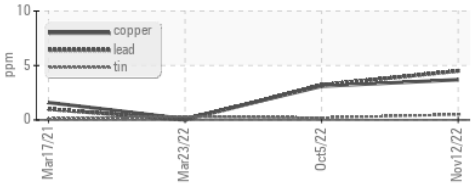
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**13.2**	12.6	13.5

GRAPHS

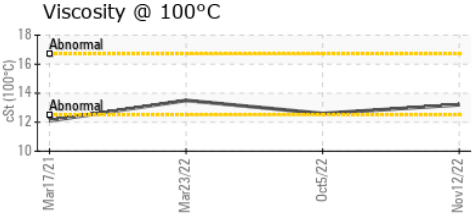
Ferrous Alloys



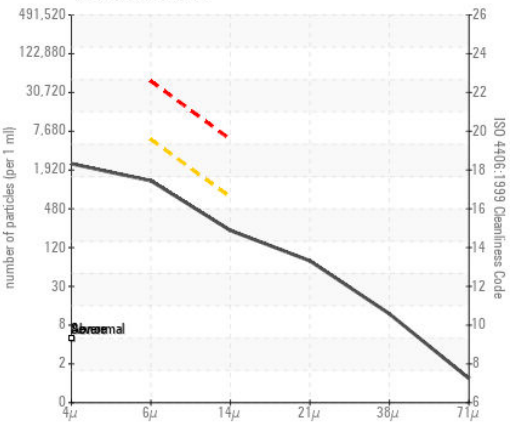
Non-ferrous Metals



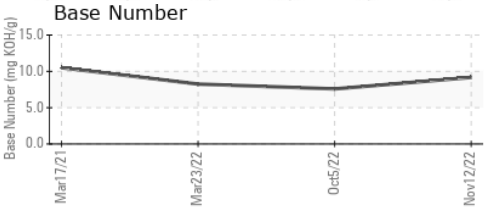
Viscosity @ 100°C



Particle Count



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011231 **Recieved** : 25 Nov 2022
Lab Number : 05703097 **Diagnosed** : 29 Nov 2022
Unique Number : 10232671 **Diagnostician** : Jonathan Hester
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)

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