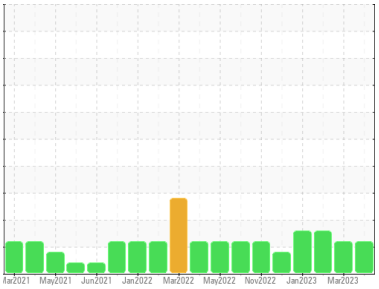
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
GUAY SON [CONHER]
Machine Id
Nova del Mar - Chuchin hidráulico
Component
Hydraulic System
Fluid
QUAKER STATE DUPLEX AW HYDRAULIC 68 (1400 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.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KL0012356**	KL0012353	KL0011363
Sample Date		Client Info		**23 Apr 2023**	23 Mar 2023	04 Mar 2023
Machine Age	hrs	Client Info		**10512**	9408	8952
Oil Age	hrs	Client Info		**10512**	9408	8952
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**3**	4	4
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m	>10	**<1**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**0**	0	<1
Lead	ppm	ASTM D5185m	>10	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>75	**<1**	<1	2
Tin	ppm	ASTM D5185m	>10	**<1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

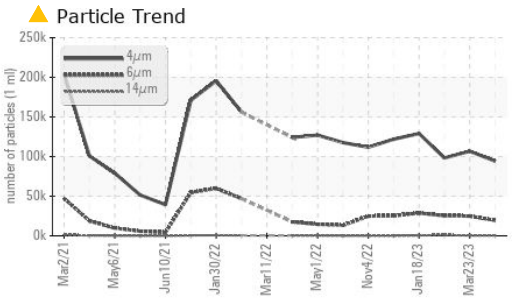
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	4.0	**0**	0	0
Barium	ppm	ASTM D5185m	0.0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0.0	**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	0.1	**4**	3	6
Calcium	ppm	ASTM D5185m	54	**69**	70	98
Phosphorus	ppm	ASTM D5185m	272	**202**	205	196
Zinc	ppm	ASTM D5185m	357	**246**	250	249
Sulfur	ppm	ASTM D5185m	2434	**2481**	2482	2158

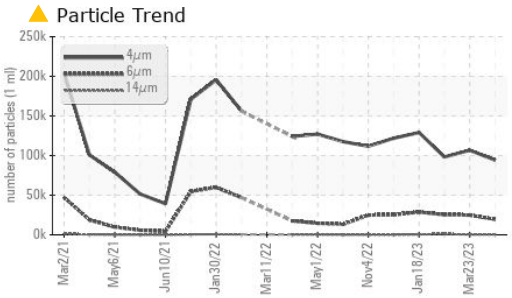
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**2**	2	5
Sodium	ppm	ASTM D5185m		**8**	8	2
Potassium	ppm	ASTM D5185m	>20	**2**	2	0

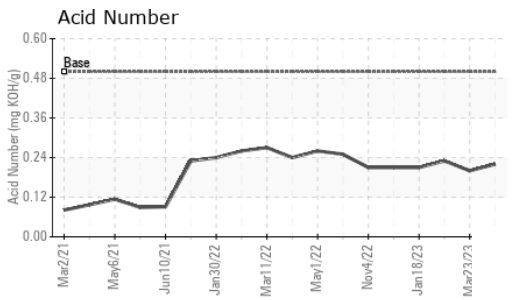
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**94293**	106745	98223
Particles >6µm		ASTM D7647	>1300	▲ **19613**	▲ 24881	▲ 25463
Particles >14µm		ASTM D7647	>160	▲ **450**	▲ 364	▲ 1004
Particles >21µm		ASTM D7647	>40	**44**	31	▲ 172
Particles >38µm		ASTM D7647	>10	**1**	2	4
Particles >71µm		ASTM D7647	>3	**0**	1	0
Oil Cleanliness		ISO 4406 (c)	>17/14	▲ **21/16**	▲ 22/16	▲ 22/17

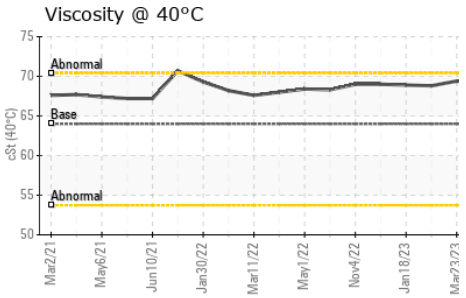
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.5	**0.22**	0.20	0.23

OIL ANALYSIS REPORT



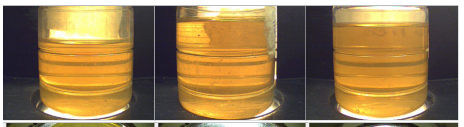
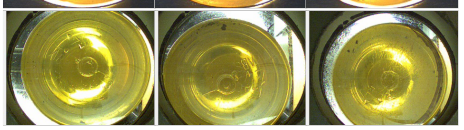




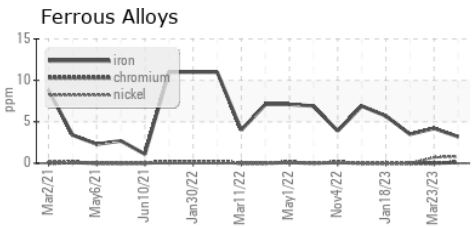


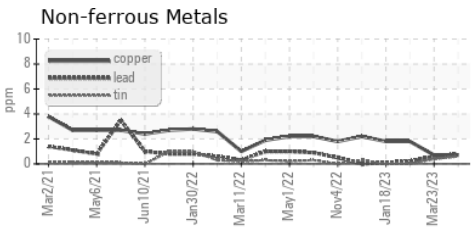
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**LIGHT**	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Sand/Dirt	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

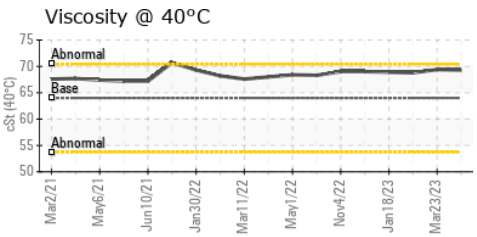
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	64	**69.3**	69.4	68.8

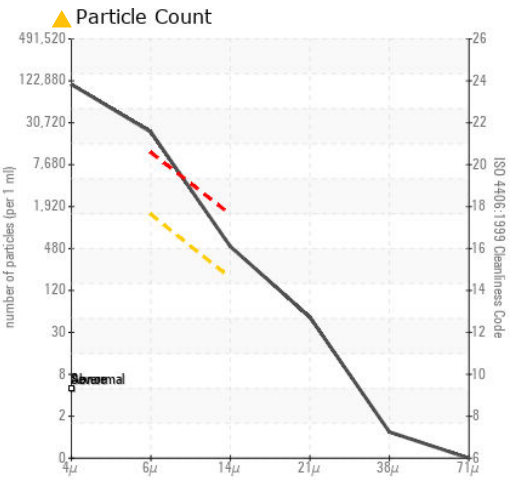
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

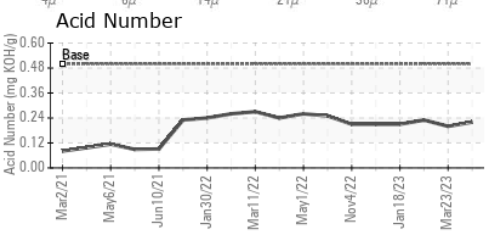
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0012356
Lab Number : 05843253
Unique Number : 10467360
Test Package : MOB 2

Received : 10 May 2023
Diagnosed : 12 May 2023
Diagnostician : Angela Borella

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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