



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
GUAY SON [CONHER]
 Machine Id
PISA 4 SH - Pacifico Industrial
 Component
Hydraulic System
 Fluid
QUAKER STATE DUPLEX AW HYDRAULIC 68 (1000 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (2 hours after filtration). (Customer Sample Comment: Sample taken at 1:35 PM (2 hours after filtration))

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013454	KL0013455	KL0013453
Sample Date		Client Info		03 Jan 2024	03 Jan 2024	03 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		4	4	4
Filter Age	hrs	Client Info		4	4	4
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	6	5	6
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	2	3	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

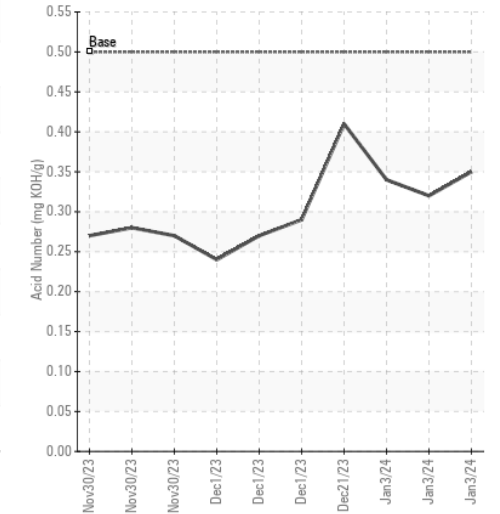
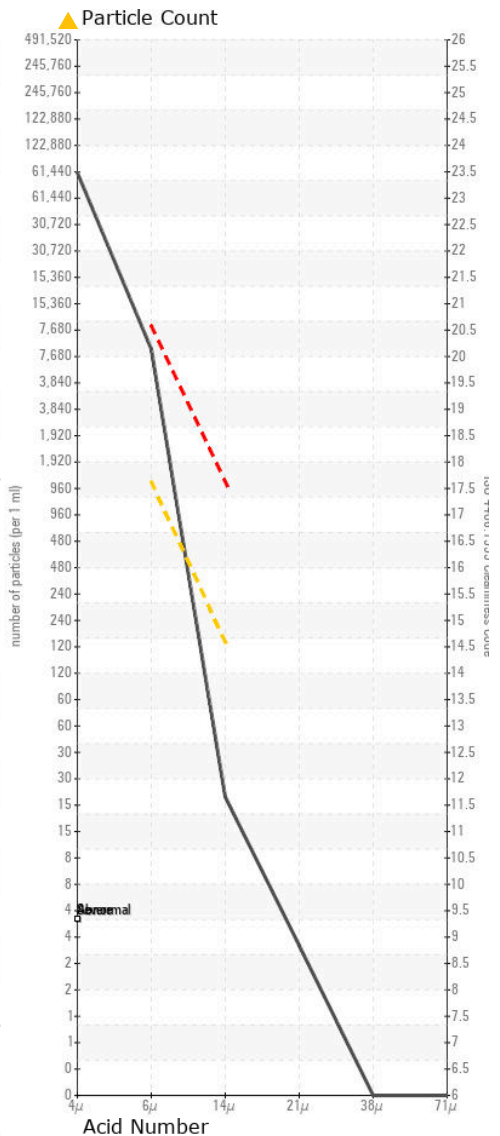
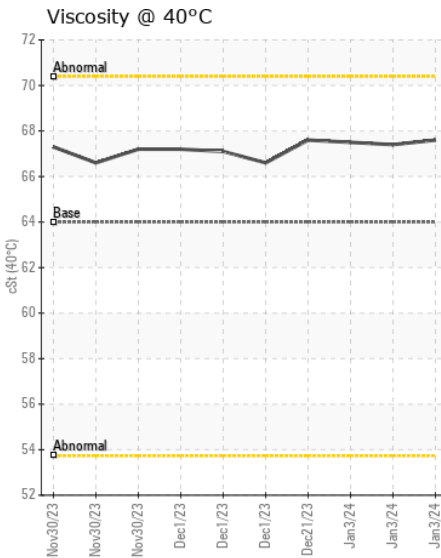
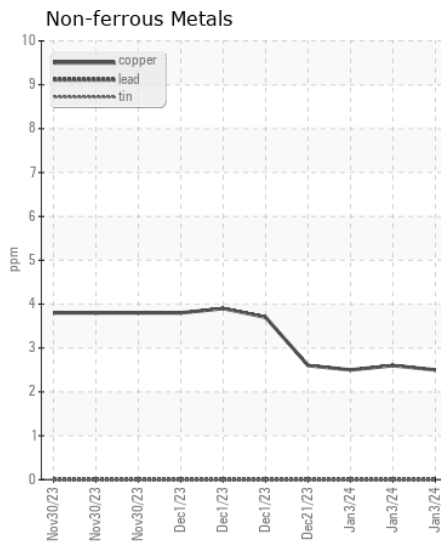
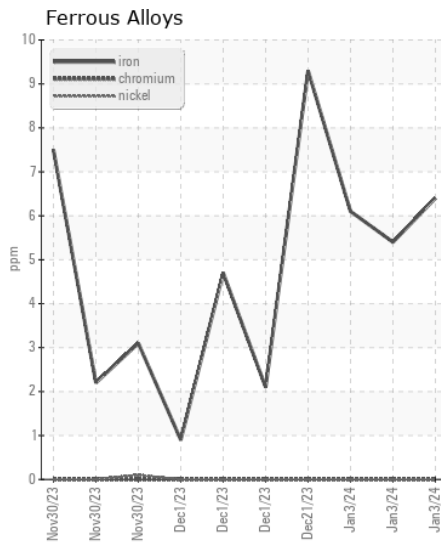
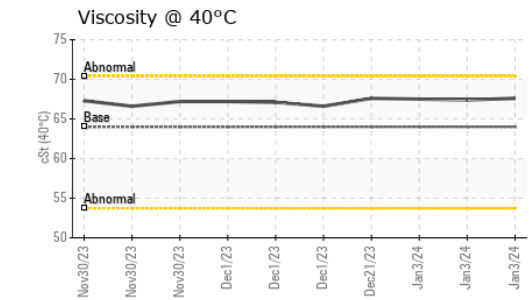
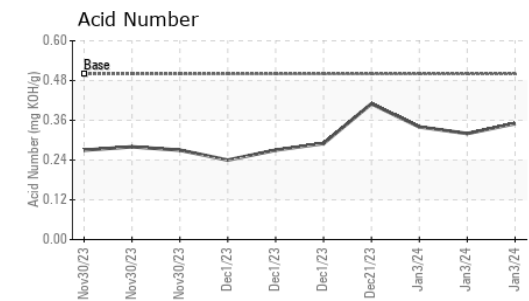
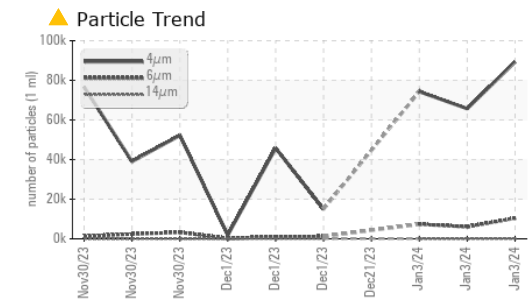
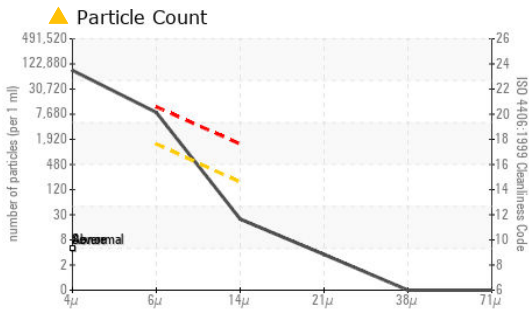
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		74290	65713	89300
Particles >6µm		ASTM D7647	>1300	7370	6075	10431
Particles >14µm		ASTM D7647	>160	21	20	18
Particles >21µm		ASTM D7647	>40	3	5	4
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/14	20/12	20/11	21/11
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		12	12	13
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		0	0	0
Magnesium	ppm	ASTM D5185m	0.1	0	0	0
Calcium	ppm	ASTM D5185m	54	12	12	13
Phosphorus	ppm	ASTM D5185m	272	343	343	338
Zinc	ppm	ASTM D5185m	357	325	325	329
Sulfur	ppm	ASTM D5185m	2434	1423	1425	1418
Acid Number (AN)	mg KOH/g	ASTM D8045	0.5	0.35	0.32	0.34
Visc @ 40°C	cSt	ASTM D445	64	67.6	67.4	67.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013454 **Received** : 09 Jan 2024
Lab Number : 06055876 **Diagnosed** : 10 Jan 2024
Unique Number : 10821825 **Diagnostician** : Don Baldrige
Test Package : MOB 2

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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