



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GUAY SON/Yavaros [CONHER]
Machine Id
CATERPILLAR Pacifico Ind Admiralty Aux
Component
Auxiliary Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (25 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013459	KL0013442	KL0013391
Sample Date		Client Info		04 Jan 2024	21 Dec 2023	17 Nov 2023
Machine Age	hrs	Client Info		0	5893	0
Oil Age	hrs	Client Info		315	193	95
Filter Age	hrs	Client Info		315	193	95
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	5	3	6
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	1	1	3
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

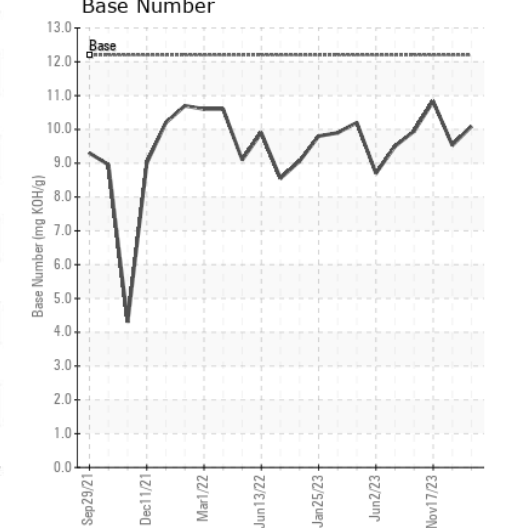
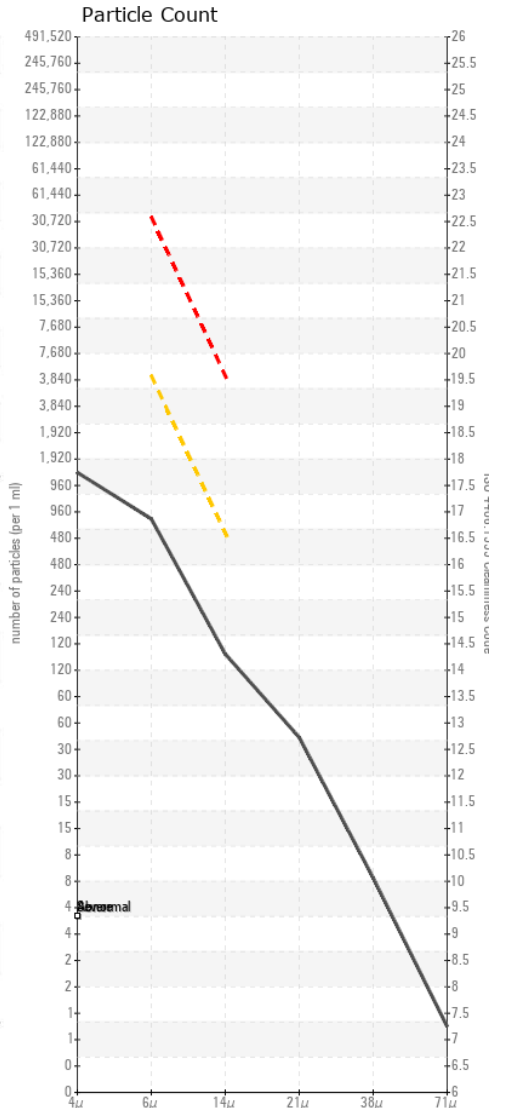
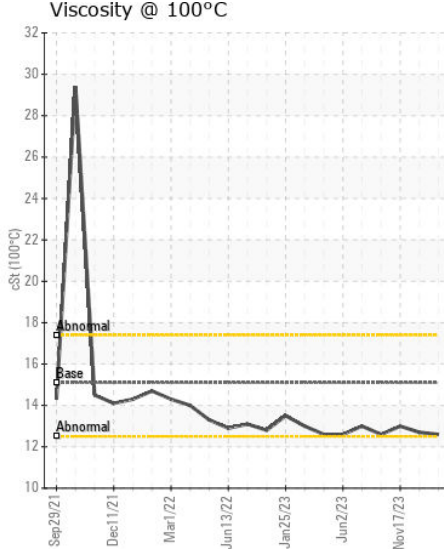
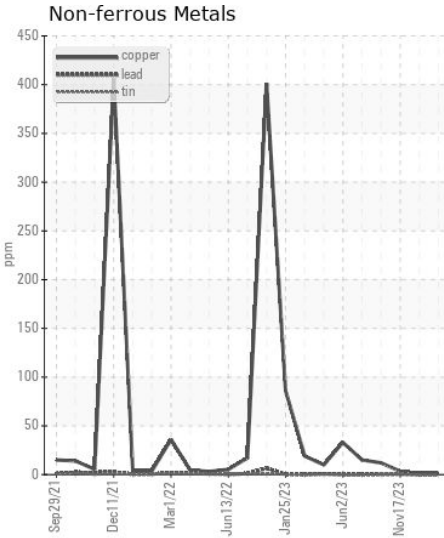
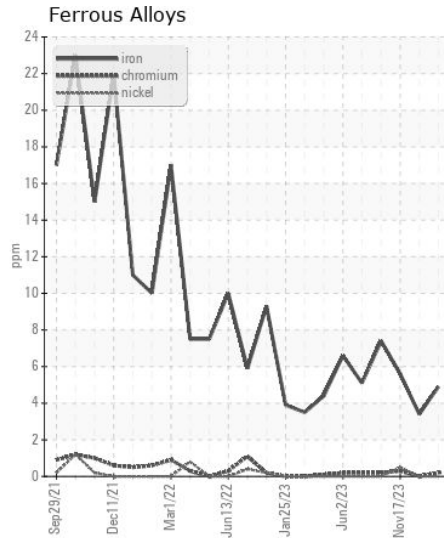
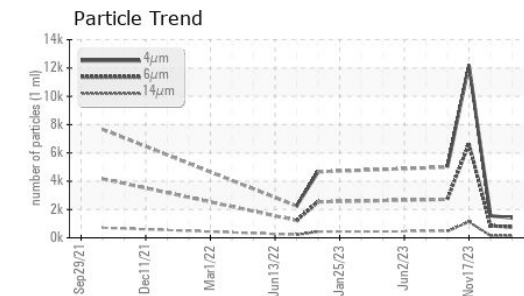
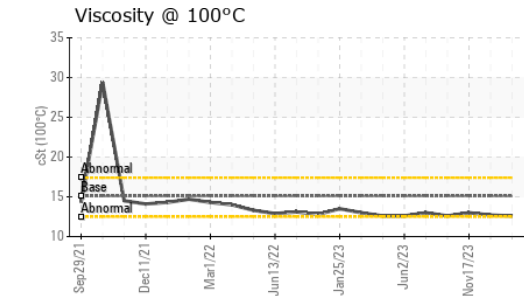
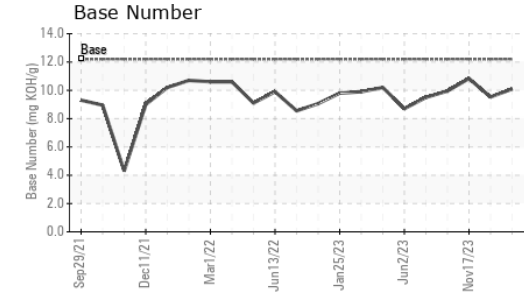
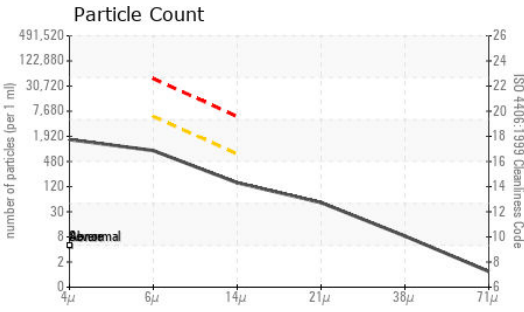
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	5	11
Potassium	ppm	ASTM D5185m	>20	2	0	2
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
Soot %	%	*ASTM D7844		0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.1	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	22.8	22.5
Particles >4µm		ASTM D7647		1409	1557	12206
Particles >6µm		ASTM D7647	>5000	768	848	▲ 6649
Particles >14µm		ASTM D7647	>640	131	144	▲ 1132
Particles >21µm		ASTM D7647	>160	44	49	▲ 381
Particles >38µm		ASTM D7647	>40	7	8	▲ 59
Particles >71µm		ASTM D7647	>10	1	1	6
Oil Cleanliness		ISO 4406 (c)	>19/16	17/14	17/14	▲ 20/17
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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	1	4
Boron	ppm	ASTM D5185m		326	296	367
Barium	ppm	ASTM D5185m		1	0	1
Molybdenum	ppm	ASTM D5185m		131	124	125
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		641	641	617
Calcium	ppm	ASTM D5185m		1465	1468	1481
Phosphorus	ppm	ASTM D5185m	1360	734	705	652
Zinc	ppm	ASTM D5185m	1480	805	807	775
Sulfur	ppm	ASTM D5185m		2637	2380	2502
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.2	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	10.09	9.53	10.83
Visc @ 100°C	cSt	ASTM D445	15.1	12.6	12.7	13.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013459 **Received** : 30 Jan 2024
Lab Number : 06075003 **Diagnosed** : 02 Feb 2024
Unique Number : 10857094 **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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