MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GUAY SON/Yavaros [CONHER]
Machine Id
CATERPILLAR Pacifico Ind Admiralty MP
Component
Center Diesel Engine
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (160 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

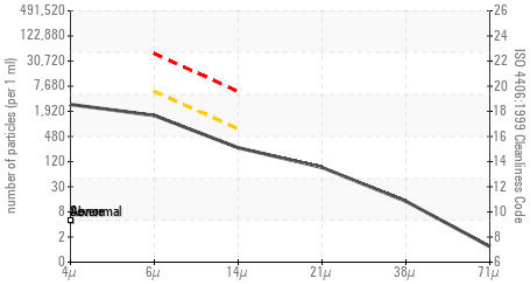
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

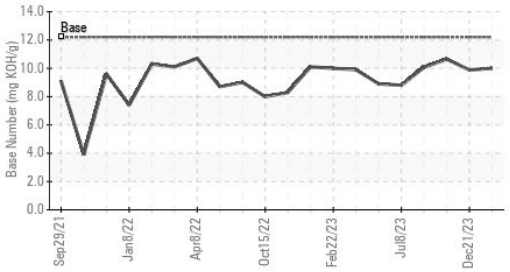
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013458	KL0013441	KL0013390
Sample Date		Client Info		04 Jan 2024	21 Dec 2023	17 Nov 2023
Machine Age	hrs	Client Info		0	0	5481
Oil Age	hrs	Client Info		247	255	77
Filter Age	hrs	Client Info		247	255	77
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
Iron	ppm	ASTM D5185m	>100	13	10	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	>25	3	3	3
Lead	ppm	ASTM D5185m	>40	1	3	1
Copper	ppm	ASTM D5185m	>330	109	86	25
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	8	8	7
Potassium	ppm	ASTM D5185m	>20	2	0	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.1	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9	26.1	23.2
Particles >4µm		ASTM D7647		2453	3993	9900
Particles >6µm		ASTM D7647	>5000	1336	2175	▲ 5393
Particles >14µm		ASTM D7647	>640	227	370	▲ 918
Particles >21µm		ASTM D7647	>160	77	125	▲ 309
Particles >38µm		ASTM D7647	>40	12	19	▲ 48
Particles >71µm		ASTM D7647	>10	1	2	5
Oil Cleanliness		ISO 4406 (c)	>19/16	18/15	18/16	▲ 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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		44	65	49
Boron	ppm	ASTM D5185m		247	232	306
Barium	ppm	ASTM D5185m		2	0	1
Molybdenum	ppm	ASTM D5185m		136	141	130
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		653	733	637
Calcium	ppm	ASTM D5185m		1515	1671	1462
Phosphorus	ppm	ASTM D5185m	1360	711	761	661
Zinc	ppm	ASTM D5185m	1480	832	925	808
Sulfur	ppm	ASTM D5185m		2483	2499	2495
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3	22.4	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	10.00	9.88	10.65
Visc @ 100°C	cSt	ASTM D445	15.1	14.4	14.1	13.7

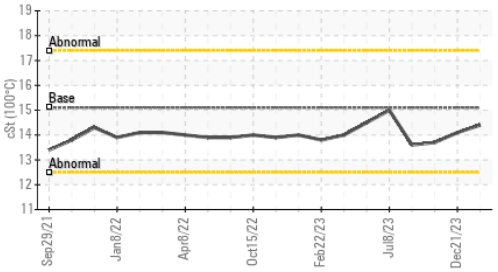
Particle Count



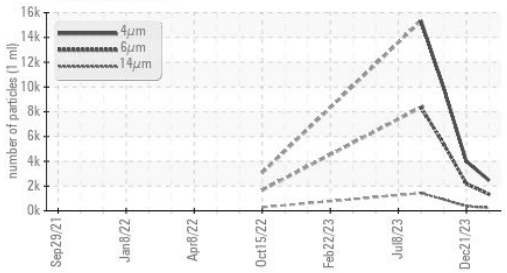
Base Number



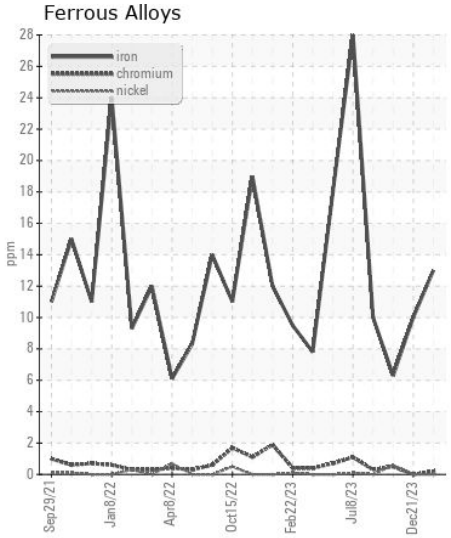
Viscosity @ 100°C



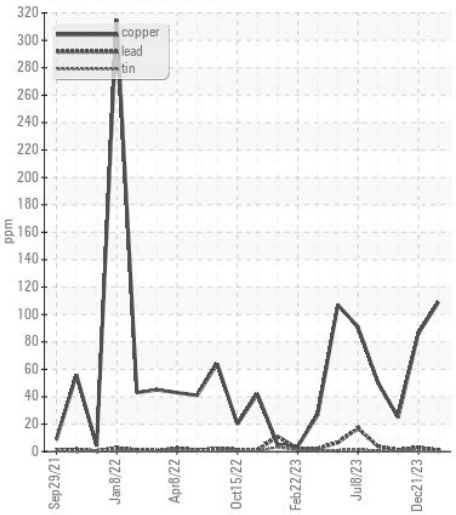
Particle Trend



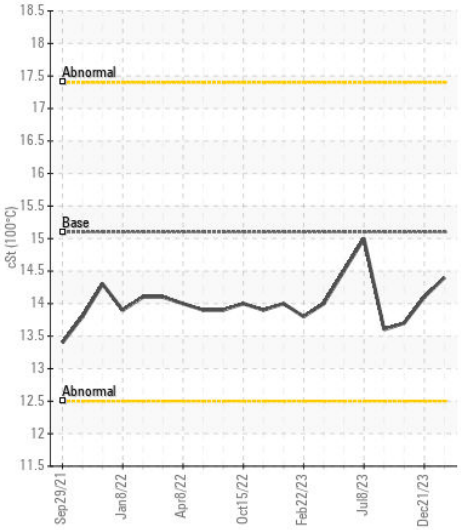
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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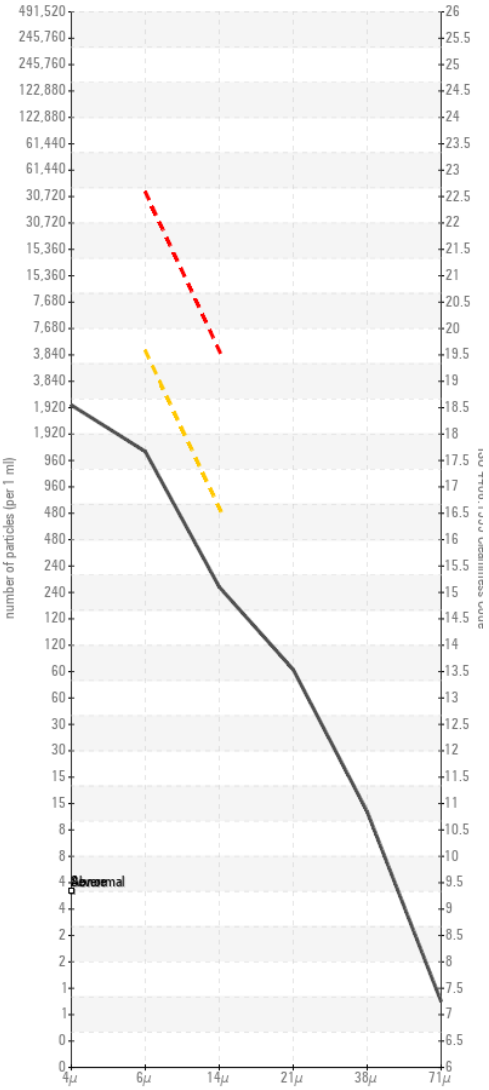

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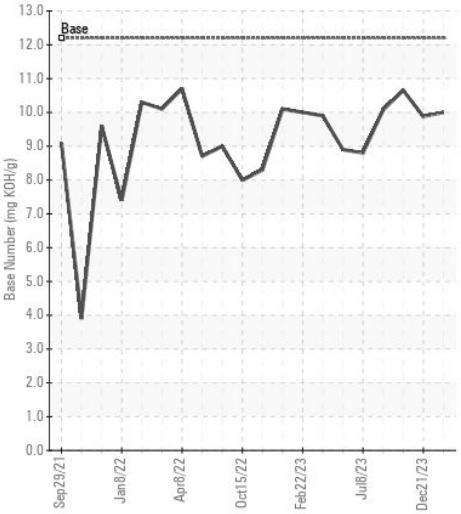

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013458 **Recieved** : 30 Jan 2024
Lab Number : 06074991 **Diagnosed** : 02 Feb 2024
Unique Number : 10857082 **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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