

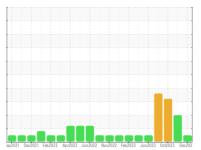
# **OIL ANALYSIS REPORT**



# GUAY SON/Yavaros [CONHER] CATERPILLAR Pacifico Ind Admiralty MP

**Center Diesel Engine** 

CHEVRON DELO 400 MULTIGRADE 15W40 (160 LTR)



Sample Rating Trend



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

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.

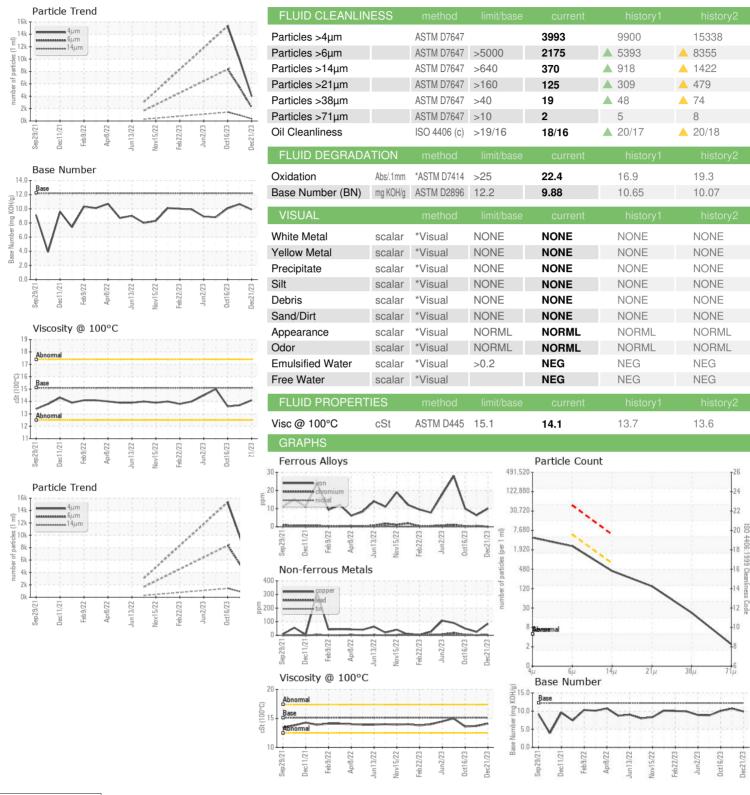
### **Fluid Condition**

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

TIGNADE 15W40 (T	ou Lin)	ep2021 Dec20	21 Feb2022 Apr2022 Jun2	022 Nov2022 Feb2023 Jun2023 Oc	t2023 Dec202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013441	KL0013390	KL0013297
Sample Date		Client Info		21 Dec 2023	17 Nov 2023	16 Oct 2023
Machine Age	hrs	Client Info		0	5481	0
Oil Age	hrs	Client Info		255	77	100
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	ABNORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	6	10
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	3	3
Lead	ppm	ASTM D5185m	>40	3	1	4
Copper	ppm	ASTM D5185m		86	25	50
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		232	306	243
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		141	130	136
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		733	637	680
Calcium	ppm	ASTM D5185m	1000	1671	1462	1565
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1360 1480	761 925	661 808	657 952
Sulfur	ppm ppm	ASTM D5185m	1400	2499	2495	2392
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	7	10
Sodium	ppm	ASTM D5185m		65	49	<b>1</b> 19
Potassium	ppm	ASTM D5185m	>20	0	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.1	6.7	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1	23.2	24.6



## OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: KL0013441 : 06055998 : 10821947

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 11 Jan 2024 Diagnostician : Don Baldridge

: 09 Jan 2024

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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