

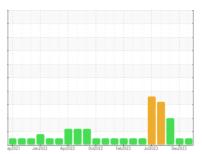
OIL ANALYSIS REPORT



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.

CAMPLE INCOR	AATION	92021 01	Iller St. II	1602023 5002023	Dec2023	1.5.
SAMPLE INFORM	MATION	method	limit/base	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
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	N	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	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
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
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
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	8	7
Sodium	ppm	ASTM D5185m		44	65	49
Potassium	ppm	ASTM D5185m	>20	2	0	2
INFRA-RED		method	limit/base	current	history1	history2
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



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Certificate L2367

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

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

: 10857082 Test Package

: KL0013458 : 06074991

: 30 Jan 2024 Recieved Diagnosed : 02 Feb 2024 Diagnostician : Jonathan Hester

: 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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