

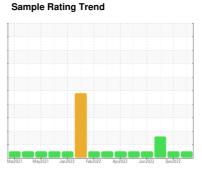
OIL ANALYSIS REPORT



GUAY SON [CONHER] CATERPILLAR Nova del Mar - Chuchin Aux

Component **Diesel Engine**

PHILLIPS 66 15W40 (60 LTR)





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

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MOITA	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0011327	KL0010210	KL0010202
Sample Date		Client Info		18 Jan 2023	12 Dec 2022	04 Nov 2022
Machine Age	hrs	Client Info		12874	11890	11124
Oil Age	hrs	Client Info		3507	2523	1757
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	12	35	43
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	1	1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	3	5
Lead	ppm	ASTM D5185m	>40	2	1	3
Copper	ppm	ASTM D5185m	>330	5	28	44
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	3	5
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		3	4	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		55	32	36
Calcium	ppm	ASTM D5185m		3659	3619	3875
Phosphorus	ppm	ASTM D5185m		952	993	1092
Zinc	ppm	ASTM D5185m		1220	1205	1331
Sulfur	ppm	ASTM D5185m		4638	4104	5470
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	14	18
Sodium	ppm	ASTM D5185m		2	11	16
Potassium	ppm	ASTM D5185m	>20	<1	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.1	10.6	13.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	21.7	25.1



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number

Unique Number : 10320876

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 01 Feb 2023 : KL0011327 Received Diagnosed : 03 Feb 2023 : 05756269

Diagnostician

: Angela Borella

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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