

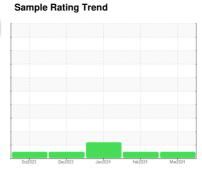
OIL ANALYSIS REPORT



Machine Id **CATERPILLAR 980M 6161 (S/N MK210767)**

Diesel Engine

TULCO LUBSOIL CK-4 15W40 (--- GAL)





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

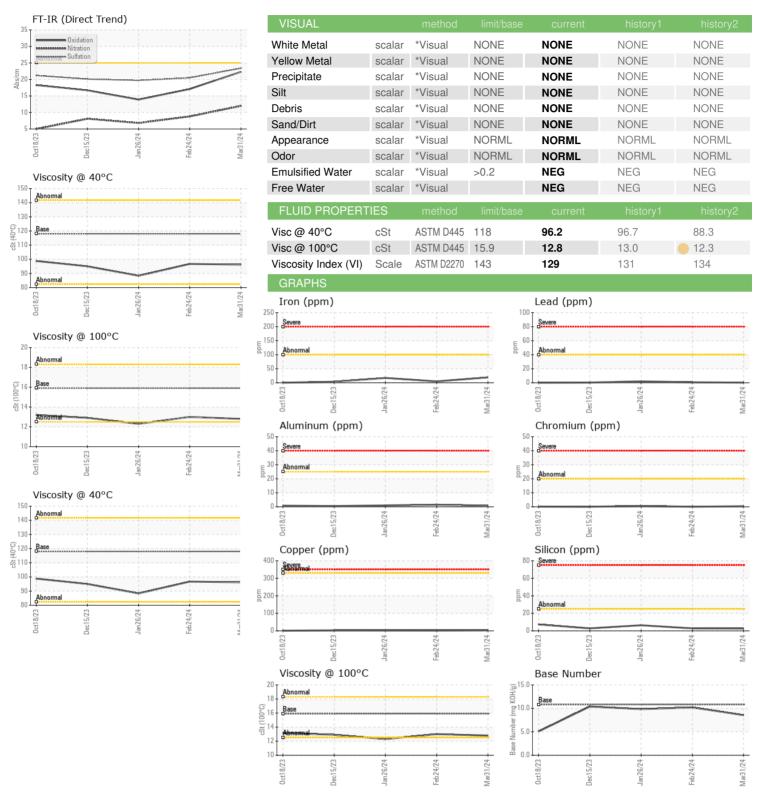
Fluid Condition

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

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SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10003352	TO10003123	TO10003034
Sample Date		Client Info		31 Mar 2024	24 Feb 2024	26 Jan 2024
Machine Age	hrs	Client Info		9552	9267	8990
Oil Age	hrs	Client Info		562	277	456
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<u> </u>
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	19	5	17
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	<1
Aluminum	ppm	ASTM D5185m	>25	<1	2	1
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	4	2	2
Tin	ppm	ASTM D5185m	>15	<1	1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	6	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	65	66	61	56
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1060	987	927	912
Calcium	ppm	ASTM D5185m	1140	1118	1063	1015
Phosphorus	ppm	ASTM D5185m	1170	1096	1050	1024
Zinc	ppm	ASTM D5185m	1230	1320	1285	1204
Sulfur	ppm	ASTM D5185m	3130	3488	3287	3154
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	6
Sodium	ppm	ASTM D5185m		24	14	2
Potassium	ppm	ASTM D5185m	>20	4	4	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	12.0	8.8	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	20.5	19.7
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3	17.1	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.8	8.55	10.20	9.84



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO10003352 Lab Number : 06142473

Unique Number: 10967281

Received : 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed : 09 Apr 2024 - Wes Davis

ANCHOR STONE TULSA ROCK TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE TULSA, OK US 74137

Contact: SKIP SAENGERHAUSEN skip@anchorstoneco.com

 st - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : MOB 2 (Additional Tests: KV40, VI)

T: (918)928-4575 F: