

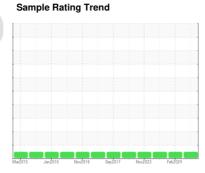
OIL ANALYSIS REPORT



DE Samples - CAT LAB CATERPILLAR 775D 6441 (S/N 8AS00350)

Diesel Engine

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





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 condition of the oil is suitable for further service.

CAMPLE INFORM	4.4.T.C.N.	oo o klaaral	line it fla		la la la const	hi-l0
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10003314	TO10001703	TO10003080
Sample Date		Client Info		13 Apr 2024	20 Feb 2024	28 Dec 2023
Machine Age	hrs	Client Info		43619	43280	43061
Oil Age	hrs	Client Info		339	469	250
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	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
ron	ppm	ASTM D5185m	>100	22	25	17
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	1
_ead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	0	1	1
Γin	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		5	7	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	65	65	61	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1060	978	959	988
Calcium	ppm	ASTM D5185m	1140	1123	1056	1086
Phosphorus	ppm	ASTM D5185m	1170	1115	1066	1090
Zinc	ppm	ASTM D5185m	1230	1285	1304	1307
Sulfur	ppm	ASTM D5185m	3130	3728	3242	3253
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	2
Sodium	ppm	ASTM D5185m		2	1	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.5	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	19.6	19.0
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.5	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.8	10.07	10.31	9.92



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06157111

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

: TO10003314 Unique Number : 10992534

Received **Tested**

: 22 Apr 2024 : 23 Apr 2024 Diagnosed : 23 Apr 2024 - Wes Davis

TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE

TULSA, OK US 74137 Contact: DAVID MORRIS

Test Package : MOB 2 (Additional Tests: KV40, VI) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 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)

Report Id: ANCTUL [WUSCAR] 06157111 (Generated: 04/24/2024 09:43:22) Rev: 1

Submitted By: SKIP SAENGERHAUSEN

ANCHOR STONE TULSA ROCK

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