

OIL ANALYSIS REPORT

Sample Rating Trend

VIS DEBRIS





CATERPILLAR 980K 6058 (S/N W7K00517)

Hydraulic System

TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (45 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

•	5 GAL)	eb2020 Jul202	0 Dec2020 Jun2021 Dec2	021 Jun2022 Dec2022 May2023 Ju	I2023 Jan202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002972	TO10002786	TO1000245
Sample Date		Client Info		26 Jan 2024	20 Oct 2023	31 Jul 2023
Machine Age	hrs	Client Info		19449	18890	18403
Oil Age	hrs	Client Info		5134	4575	4088
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	4	1	5
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Fitanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
_ead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	2	<1	3
Γin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		167	158	95
Calcium	ppm	ASTM D5185m		144	151	123
Phosphorus	ppm	ASTM D5185m		755	760	889
Zinc	ppm	ASTM D5185m		896	984	1139
Sulfur	ppm	ASTM D5185m		2693	2760	3701
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	<1	1
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		2316	2494
		ASTM D7647	>1300		106	722
Particles >6µm						
		ASTM D7647	>160		9	44
Particles >6µm Particles >14µm			>160 >40		9	44 8
Particles >6µm Particles >14µm Particles >21µm		ASTM D7647				
Particles >6µm		ASTM D7647 ASTM D7647	>40		4	8
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647	>40 >10		4 0	8

Acid Number (AN)

mg KOH/g ASTM D8045

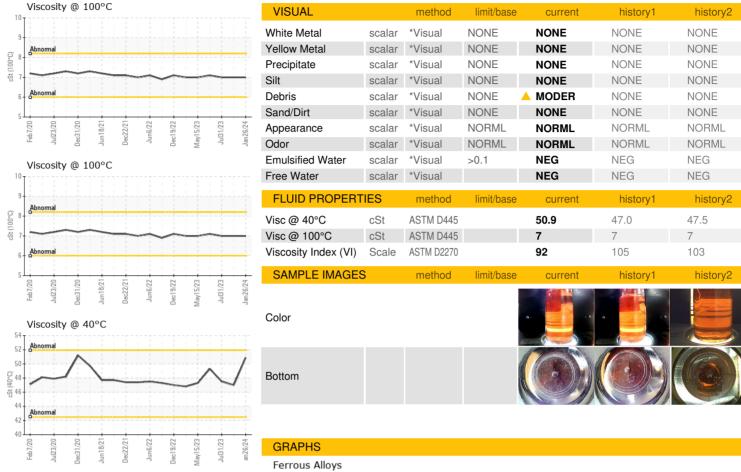
0.80

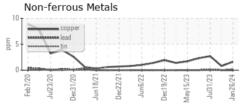
0.70

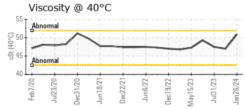
1.00

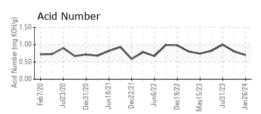


OIL ANALYSIS REPORT













Certificate L2367

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

: TO10002972 : 06076367 : 10858458

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 Diagnosed

: 02 Feb 2024 Diagnostician : Don Baldridge

Test Package : MOB 2 (Additional Tests: KF, KV100, VI) 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)

ANCHOR STONE TULSA ROCK

TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE

TULSA, OK US 74137

Contact: MIKE SNYDER msnyder@anchorstoneco.com T: (417)850-9635

F: