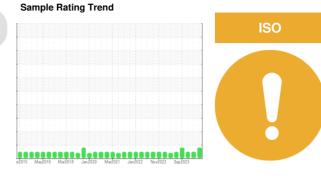


OIL ANALYSIS REPORT



monitor.

Wear

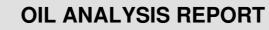
Area

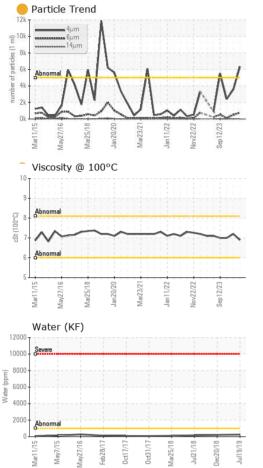
DE Samples - CAT LAB CATERPILLAR 980K LOADER 6775 (S/N W7K01443) Hydraulic System TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (--- GAL)

SAMPLE INFORMATION

TO10003081 TO10003112 TO10002811 Sample Number **Client Info** Recommendation No corrective action is recommended at this time. Sample Date Client Info 04 May 2024 22 Feb 2024 04 Dec 2023 The filter change at the time of sampling has been Client Info 28486 27973 Machine Age hrs 27433 noted. Resample at the next service interval to Oil Age hrs Client Info 502 5652 5112 Oil Changed Not Changd **Client Info** Not Changd Not Changd Sample Status ATTENTION NORMAL NORMAL All component wear rates are normal. Contamination There is a moderate amount of silt (particulates < >20 0 0 0 Iron ppm ASTM D5185m 14 microns in size) present in the oil. Chromium ASTM D5185m >10 0 0 0 ppm Fluid Condition Nickel ppm ASTM D5185m >10 0 0 0 The AN level is acceptable for this fluid. The Titanium ASTM D5185m 0 0 0 ppm condition of the oil is suitable for further service. 0 0 Silver ppm ASTM D5185m 0 Aluminum ASTM D5185m >10 0 0 ppm <1 Lead ASTM D5185m >10 0 0 0 ppm 0 2 Copper ASTM D5185m >75 ppm <1 0 Tin ppm ASTM D5185m >10 0 0 Vanadium ASTM D5185m 0 0 0 ppm Cadmium ppm ASTM D5185m 0 0 0 0 0 0 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum 0 ppm ASTM D5185m 0 Manganese ppm ASTM D5185m <1 <1 213 209 Magnesium ASTM D5185m 211 ppm 206 Calcium ppm ASTM D5185m 196 192 Phosphorus ppm ASTM D5185m 741 748 722 Zinc ASTM D5185m 900 931 897 ppm Sulfur 2725 2728 ppm ASTM D5185m 3272 Silicon ppm ASTM D5185m >20 1 1 <1 4 Sodium ppm ASTM D5185m 4 4 Potassium ASTM D5185m >20 1 0 <1 ppm NEG Water % ASTM D6304 >0.1 NEG NEG FLUID CLEANLINESS Particles >4µm ASTM D7647 >5000 6345 3575 2413 Particles >6µm ASTM D7647 >1300 760 506 110 Particles >14µm ASTM D7647 >160 35 19 12 Particles >21µm ASTM D7647 >40 11 3 4 Particles >38µm ASTM D7647 >10 1 0 0 Particles >71µm ASTM D7647 >3 0 0 0 **Oil Cleanliness** ISO 4406 (c) >19/17/14 20/17/12 19/16/11 18/14/11







Viscosity @ 100°C

Jan 20/20

Aar73/7

/lar25/18

Viscosity @ 40°C

10

cSt (100°C)

Abnorm

Abnorma 52

Mar11/15

54

50

(0-048 46

4 42

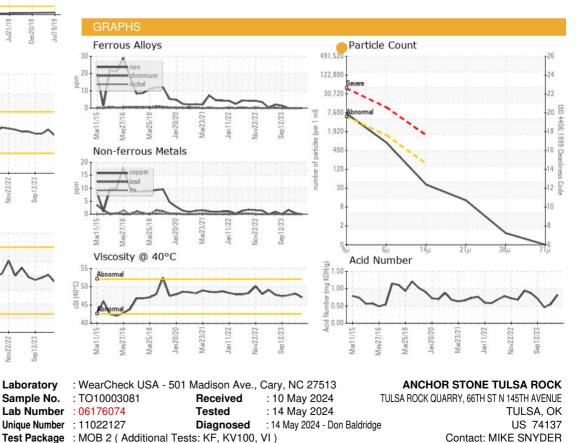
Mar11/15

In T Cuel

Mar25/1

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		47.1	48.1	47.7
Visc @ 100°C	cSt	ASTM D445		6.9	7.2	7
Viscosity Index (VI)	Scale	ASTM D2270		101	108	103
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom



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)

Report Id: ANCTUL [WUSCAR] 06176074 (Generated: 05/15/2024 10:09:26) Rev: 1

Certificate 12367

ov22/22

Jan 11/22

CC/11/05

CICCUON

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