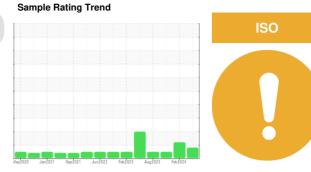


## **OIL ANALYSIS REPORT**



Area

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

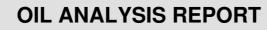
TULCO LUBSOIL SUPER HYDRAULIC HZ 46 (21 GAL)

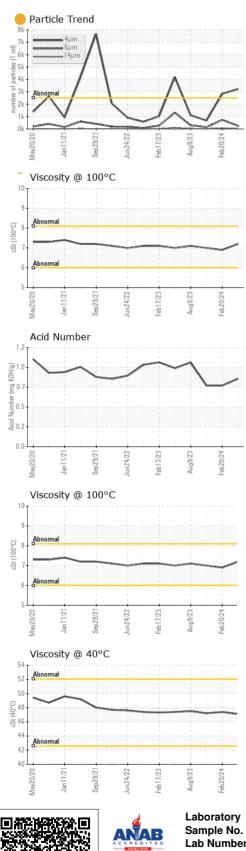
AGNOSIS	SAMPLE INFOR		mothed	limit/base	ou weeks	biotomyt	biotem 0
		MATION	method	iimii/base		history1	history2
commendation	Sample Number		Client Info		TO10003095	TO10001697	TO10002872
orrective action is recommended at this time. filter change at the time of sampling has been	Sample Date		Client Info		13 May 2024	20 Feb 2024	13 Nov 2023
d. Resample at the next service interval to	Machine Age	hrs	Client Info		43808	43280	42811
tor.	Oil Age	hrs	Client Info		5055	4527	4058
r	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
omponent wear rates are normal.	Sample Status				ATTENTION	ATTENTION	NORMAL
ontamination	CONTAMINATION		method	limit/base	current	history1	history2
e is a moderate amount of silt (particulates < icrons in size) present in the oil.	Water		WC Method		NEG	NEG	NEG
I Condition	WEAR METALS		method	limit/base	current	history1	history2
AN level is acceptable for this fluid. The	Iron	ppm	ASTM D5185m	>60	3	1	3
ition of the oil is suitable for further service.	Chromium	ppm	ASTM D5185m	>12	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>6	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>4	2	0	<1
	Lead	ppm	ASTM D5185m	>12	<1	0	0
	Copper	ppm	ASTM D5185m	>30	2	1	2
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	Cadmium	ppm	ASTM D5185m		<1	0	<1
	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		<1	0	<1
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		194	140	79
	Calcium	ppm	ASTM D5185m		192	151	102
	Phosphorus	ppm	ASTM D5185m		838	644	730
	Zinc	ppm	ASTM D5185m		1022	835	952
	Sulfur	ppm	ASTM D5185m		3380	2494	2587
	CONTAMINANT	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>10	2	<1	2
	Sodium	ppm	ASTM D5185m		2	6	4
	Potassium	ppm	ASTM D5185m	>20	2	0	0
	FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647		<b>6</b> 3212	2826	674
	Particles >6µm		ASTM D7647	>640	260	734	133
	Particles >14µm		ASTM D7647	>80	23	71	10
	Particles >21µm		ASTM D7647	>20	11	15	2
	Particles >38µm		ASTM D7647	>4	0	1	0
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)		19/15/12	9/17/13	17/14/10
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

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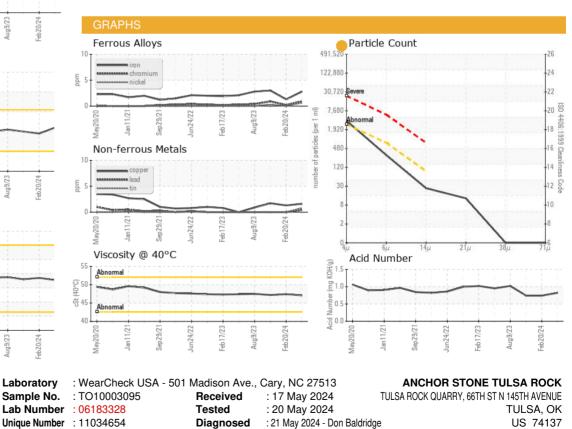






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		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	47.4	47.2
Visc @ 100°C	cSt	ASTM D445		7.2	6.9	7
Viscosity Index (VI)	Scale	ASTM D2270		112	100	104
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom



Certificate L2367Test Package: MOB 2 ( Additional Tests: KV100, PrtCount, 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)

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Submitted By: SKIP SAENGERHAUSEN

F:

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