

# **OIL ANALYSIS REPORT**









# DE Samples - CAT LAB CATERPILLAR 990H LOADER 6572 (S/N BWX00474) Front Right Final Drive

TULCO LUBSOIL TO-4 50 (10 GAL)

### **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

The copper level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the

### **Fluid Condition**

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

SAMPLE INFORMAT						
	ION metho	od lim	it/base ci	urrent hi	story1 his	story2
Sample Number	Client I	nfo	TO100	<b>02097</b> TO100	003379 TO100	02841
Sample Date	Client I	nfo	29 Ma	y <b>2024</b> 04 Ma	r 2024 27 Nov	v 2023
Machine Age hrs	Client I	nfo	32161	31604	31072	
Oil Age hrs	Client I	nfo	5867	5310	4778	
Oil Changed	Client I	nfo	Not C	nangd Not Cl	nangd Not Ch	nangd
Sample Status			ABNO	RMAL ABNO	RMAL NORM	1AL
CONTAMINATION	metho	od lim	it/base ci	urrent hi	story1 hi	story2
Water	WC Met	thod >0.2	NE	G NE	G NEO	G
WEAR METALS	metho	od lim	it/base ci	urrent hi	story1 hi	story2
PQ	ASTM D	8184 >500	35	30	22	
Iron ppi	m ASTM D5	185m >800	35	30	33	
Chromium ppi	m ASTM D5	185m > 10	<1	<1	<1	
Nickel ppi	m ASTM D5	185m >5	2	2	1	
Titanium ppi	m ASTM D5	185m >15	<1	<1	<1	
Silver ppi	m ASTM D5	185m >2	0	<1	0	
Aluminum ppi	m ASTM D5	185m >75	3	3	1	
Lead ppi	m ASTM D5	185m >10	9	8	6	
Copper ppi	m ASTM D5	185m >75	<u> </u>	61	58	
Tin ppi	m ASTM D5	185m >8	6	5	3	
Vanadium ppi	m ASTM D5	185m	<1	<1	0	
Cadmium ppi	m ASTM D5	185m	<1	<1	0	
ADDITIVES	metho	od lim	it/base c	urrent hi	story1 hi	story2
ADDITIVES  Boron ppi			it/base co	u <mark>rrent hi</mark> 1	story1 his	story2
_	m ASTM D5	185m			-	story2
Boron ppi	m ASTM D5	185m 185m	0	1	0	story2
Boron ppi Barium ppi	m ASTM D5 m ASTM D5 m ASTM D5	185m 185m 185m	0	1	0	story2
Boron ppi Barium ppi Molybdenum ppi	m ASTM D5 m ASTM D5 m ASTM D5 m ASTM D5	185m 185m 185m	0 0 <1	1 0 <1	0 0 0	story2
Boron ppi Barium ppi Molybdenum ppi Manganese ppi	m ASTM D5' m ASTM D5' m ASTM D5' m ASTM D5' m ASTM D5'	185m 185m 185m 185m	0 0 <1 <1	1 0 <1 <1 26	0 0 0 0 0 30	
Boron ppr Barium ppr Molybdenum ppr Manganese ppr Magnesium ppr	m ASTM D5' m ASTM D5' m ASTM D5' m ASTM D5' m ASTM D5 m ASTM D5 m ASTM D5	185m 185m 185m 185m 185m	0 0 <1 <1 31	1 0 <1 <1 26 8 345	0 0 0 0 0 30 38 392	3
Boron ppr Barium ppr Molybdenum ppr Manganese ppr Magnesium ppr Calcium ppr	M ASTM D5	185m 185m 185m 185m 185m 185m	0 0 <1 <1 31 381	1 0 <1 <1 26 8 345 767	0 0 0 0 30 38 392 863	3
Boron ppr Barium ppr Molybdenum ppr Manganese ppr Magnesium ppr Calcium ppr Phosphorus ppr	M ASTM D5'	185m 185m 185m 185m 185m 185m 185m	0 0 <1 <1 31 381 759	1 0 <1 <1 26 8 345 767 7 829	0 0 0 0 30 30 88 392 863	3
Boron ppi Barium ppi Molybdenum ppi Manganese ppi Magnesium ppi Calcium ppi Phosphorus ppi Zinc ppi	M ASTM D5'	185m 185m 185m 185m 185m 185m 185m 185m	0 0 <1 <1 31 381 759 101	1 0 <1 <1 26 <b>8</b> 345 767 829 <b>2</b> 484	0 0 0 0 30 38 392 863 101 101 2	3
Boron ppi Barium ppi Molybdenum ppi Manganese ppi Magnesium ppi Calcium ppi Phosphorus ppi Zinc ppi Sulfur ppi	m ASTM D5	185m 185m 185m 185m 185m 185m 185m 185m	0 0 <1 <1 31 381 759 101 501	1 0 <1 <1 26 <b>8</b> 345 767 829 <b>2</b> 484	0 0 0 0 30 38 392 863 101 101 2	3 5 1
Boron ppi Barium ppi Molybdenum ppi Manganese ppi Magnesium ppi Calcium ppi Phosphorus ppi Zinc ppi Sulfur ppi	m ASTM D5	185m 185m 185m 185m 185m 185m 185m 185m 185m 185m	0 0 <1 <1 31 381 759 101 501	1 0 <1 <1 26 <b>8</b> 345 767 829 <b>2</b> 484 urrent hi	0 0 0 0 30 38 392 863 101 22 503 story1	3 5 1
Boron ppi Barium ppi Molybdenum ppi Manganese ppi Magnesium ppi Calcium ppi Phosphorus ppi Zinc ppi Sulfur ppi CONTAMINANTS Silicon ppi	m ASTM D5	185m 185m 185m 185m 185m 185m 185m 185m 185m 185m 185m	0 0 <1 <1 31 381 759 101 501	1 0 <1 <1 26 8 345 767 829 2 484 arrent hi	0 0 0 0 30 88 392 7 863 1 101 2 503 story1 his	3 5 1
Boron ppi Barium ppi Molybdenum ppi Manganese ppi Magnesium ppi Calcium ppi Phosphorus ppi Zinc ppi Sulfur ppi CONTAMINANTS Silicon ppi Sodium ppi	m ASTM D5	185m   20   185m   20	0 0 <1 <1 31 381 759 101 501 (t/base cr	1 0 <1 <1 <26 <b>8</b> 345 767 829 <b>2</b> 484 <b>urrent hi</b> 18 5 3	0 0 0 0 30 38 392 863 101 22 503 story1 his	3 5 1



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Lab Number

: 06198324 Unique Number : 11060447

: TO10002097

**Tested** 

: 06 Jun 2024 Diagnosed : 06 Jun 2024 - Jonathan Hester

Test Package : MOB 2 ( Additional Tests: KV100, PQ, 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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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