

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Area MINING ME-62 CATERPILLAR 336 CYBN20963 Component Hydraulic System

CAT TDTO 10W (43 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### Fluid Condition

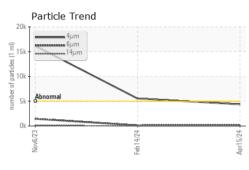
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

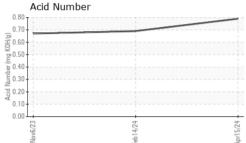
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0909686	WC06090095	WC0866094	
Sample Date		Client Info		15 Apr 2024	14 Feb 2024	06 Nov 2023	
Machine Age	hrs	Client Info		2600	0	0	
Oil Age	hrs	Client Info		1000	0	2000	
Oil Changed		Client Info		Not Changd	N/A	Changed	
Sample Status				NORMAL	ATTENTION	ABNORMAL	
CONTAMINATION	I	method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	12	12	17	
Chromium	ppm	ASTM D5185m	>10	7	5	6	
Nickel	ppm	ASTM D5185m	>10	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>10	4	4	6	
Lead	ppm		>10	0	0	<1	
Copper	ppm	ASTM D5185m	>75	5	7	10	
Tin	ppm	ASTM D5185m	>10	0	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	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	1	1	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m		5	6	0	
Calcium	ppm	ASTM D5185m	2980	195	164	143	
Phosphorus	ppm	ASTM D5185m	1100	692	652	632	
Zinc	ppm	ASTM D5185m	1270	904	826	894	
Sulfur	ppm	ASTM D5185m		1929	1603	1429	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	5	6	8	
Sodium	ppm	ASTM D5185m		4	3	5	
Potassium	ppm	ASTM D5185m	>20	<1	0	3	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	4377	5542	🔺 16167	
Particles >6µm		ASTM D7647	>1300	220	114	1457	
Particles >14µm		ASTM D7647	>160	16	7	107	
Particles >21µm		ASTM D7647	>40	6	2	28	
Particles >38µm		ASTM D7647	>10	0	0	1	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/15/11	20/14/10	<b>1</b> /18/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.79	0.69	0.67	
5:38:09) Rev: 1				Contact/Location: TRACY KEE - COVCAMTN			

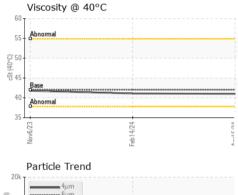
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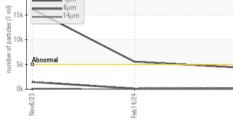


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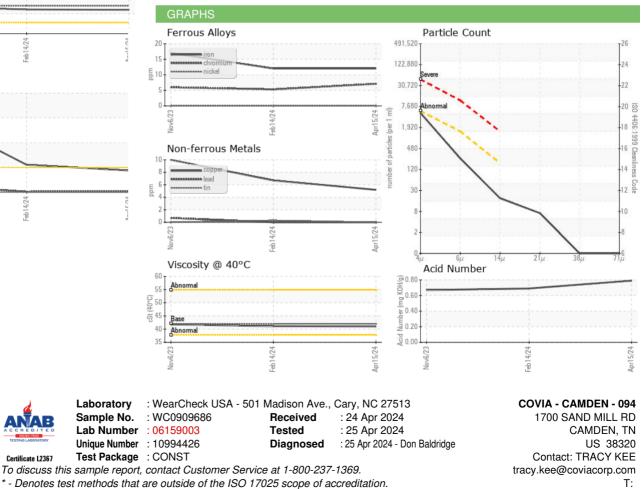








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>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	42.0	41.0	41.1	41.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



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

Report Id: COVCAMTN [WUSCAR] 06159003 (Generated: 04/25/2024 15:38:09) Rev: 1

Certificate 12367

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