

## **OIL ANALYSIS REPORT**

Sample Rating Trend

**VISUAL METAL** 



CATERPILLAR 568 414 (S/N BRB00298) Component

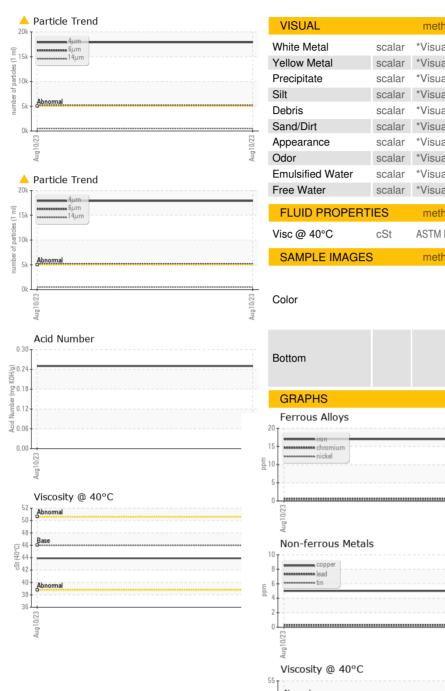
**Hydraulic System** 

## MOBIL HYDRAULIC OIL AW 46 (85 GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		WC05930323		
The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Date		Client Info		10 Aug 2023		
	Machine Age	hrs	Client Info		14172		
	Oil Age	hrs	Client Info		2110		
	Oil Changed		Client Info		Not Changd		
A Wear	Sample Status				ABNORMAL		
High concentration of visible metal present. All component wear rates are normal.	WEAR METALS		method	limit/base	current	history1	history2
Contamination	Iron	ppm	ASTM D5185m	>20	17		
There is a high amount of particulates present in	Chromium	ppm	ASTM D5185m	>10	<1		
the oil.	Nickel	ppm	ASTM D5185m	>10	0		
Fluid Condition The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	0		
	Lead	ppm	ASTM D5185m	>10	<1		
	Copper	ppm	ASTM D5185m	>75	5		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		2		
	Calcium	ppm	ASTM D5185m		196		
	Phosphorus	ppm	ASTM D5185m		328		
	Zinc	ppm	ASTM D5185m		388		
	Sulfur	ppm	ASTM D5185m		1297		
	CONTAMINANTS	3	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>20	3		
	Sodium	ppm	ASTM D5185m		2		
	Potassium	ppm	ASTM D5185m	>20	<1		
	FLUID CLEANLIN	VESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	<b>A</b> 17885		
	Particles >6µm		ASTM D7647	>1300	<u> </u>		
	Particles >14µm		ASTM D7647	>160	<mark>▲</mark> 508		
	Particles >21µm		ASTM D7647	>40	<u> </u>		
	Particles >38µm		ASTM D7647	>10	5		
	Particles >71µm		ASTM D7647	>3	1		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 21/20/16		
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.25		



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50 (40°C)

45 5

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

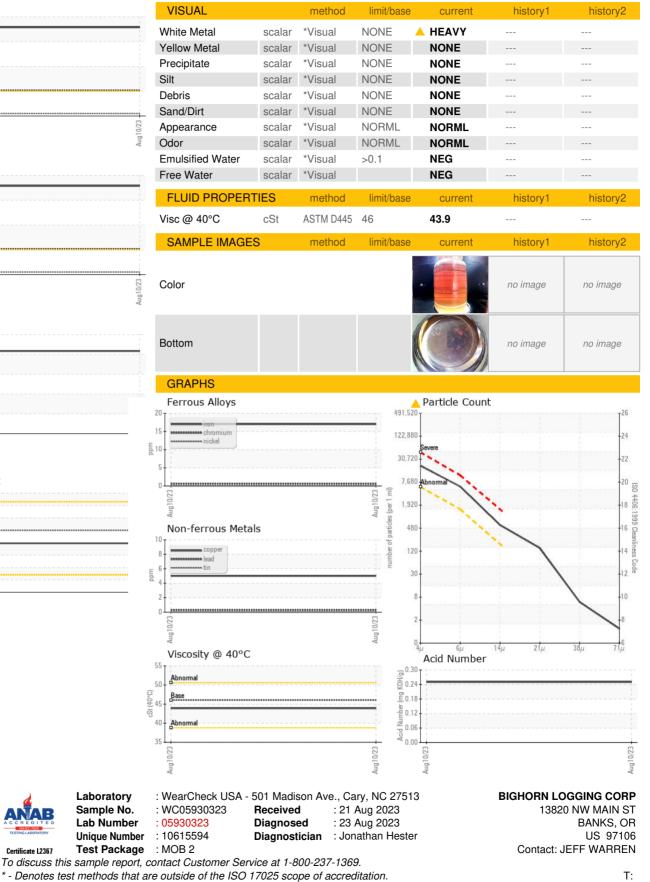
Laboratory

Sample No.

Lab Number

Unique Number

Test Package



Report Id: BIGBAN [WUSCAR] 05930323 (Generated: 08/23/2023 17:01:17) Rev: 1

Certificate L2367

Contact/Location: JEFF WARREN - BIGBAN

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