

# **OIL ANALYSIS REPORT**

Sample Rating Trend





#### Area MINING Machine Id ME-502 CATERPILLAR 988K TWX01543 Component Front Right Final Drive

SAMPLE INFORMATION method

SHELL Spirax S4 CX 30 (--- GAL)

## DIAGNOOIO

Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

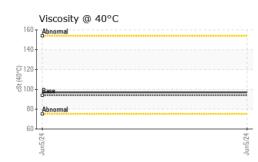
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		WC0944183		
Sample Date		Client Info		05 Jun 2024		
Machine Age	hrs	Client Info		14009		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
lron	ppm	ASTM D5185m	>800	64		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m	>15	2		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>75	2		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>75	14		
Tin	ppm	ASTM D5185m	>8	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		23		
Barium	ppm	ASTM D5185m		0		
Volybdenum	ppm	ASTM D5185m		3		
Manganese	ppm	ASTM D5185m		<1		
Vagnesium	ppm	ASTM D5185m		24		
Calcium	ppm	ASTM D5185m		3194		
Phosphorus	ppm	ASTM D5185m		861		
Zinc	ppm	ASTM D5185m		1108		
Sulfur	ppm	ASTM D5185m		5270		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	11		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		

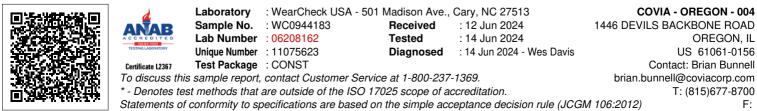
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FLUID PROPER		method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D445	93.9	96.9		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom			_	no image	no image	no image
GRAPHS						
Ferrous Alloys	ls		Jun5/24			
Viscosity @ 40°C			Jun5/24			
Base						
Abnormal						
			Jun5/24 -			



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