

## **OIL ANALYSIS REPORT**

Sample Rating Trend





MINING ME-71 CATERPILLAR 349L HPD01020 Component Hydraulic System

SHELL Spirax S4 CX 30 (--- GAL)

# DIAGNOSIS A Recommendation

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Area

#### 🛑 Wear

All component wear rates are normal.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil.

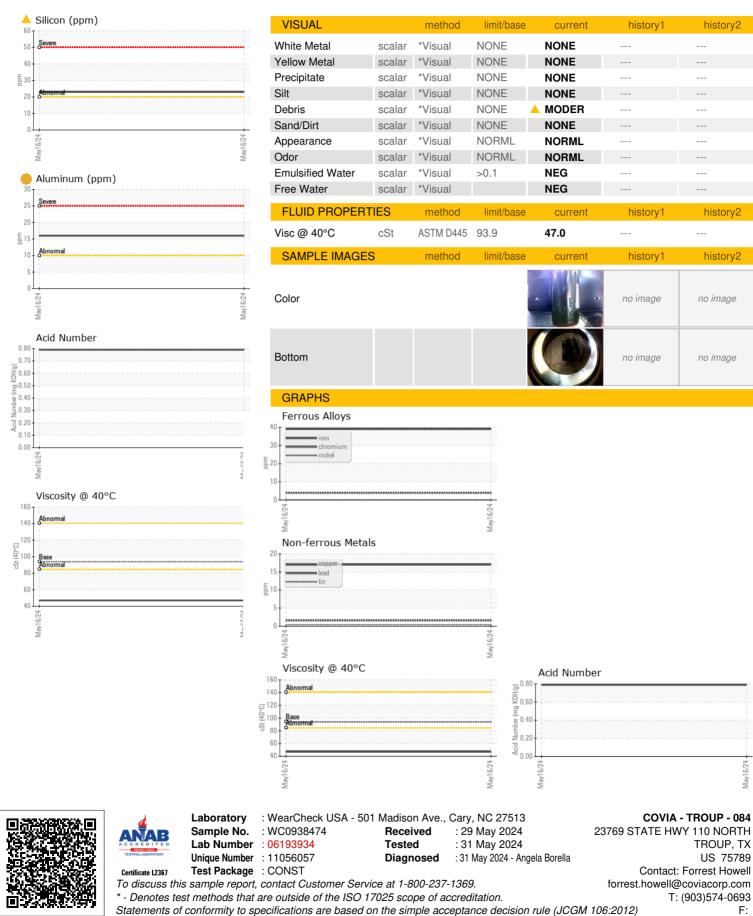
#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0938474		
Sample Date		Client Info		16 May 2024		
Machine Age	hrs	Client Info		8534		
Oil Age	hrs	Client Info		2976		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	39		
Chromium	ppm	ASTM D5185m	>10	4		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>10	<mark> </mark> 16		
Lead	ppm	ASTM D5185m	>10	2		
Copper	ppm	ASTM D5185m	>75	17		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		3		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		19		
Calcium	ppm	ASTM D5185m		643		
Phosphorus	ppm	ASTM D5185m		649		
Zinc	ppm	ASTM D5185m		806		
Sulfur	ppm	ASTM D5185m		2564		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<u> </u>		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.79		



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Submitted By: Wes Davis

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E:

TROUP, TX

US 75789

history2

history2

history2

no imade

no imade