

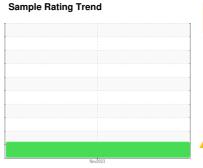
OIL ANALYSIS REPORT



CATERPILLAR BACK HOE 137

Component **Hydraulic System**

PETRO CANADA 10W





DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

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

Contamination

Moderate concentration of visible dirt/debris present in the oil.

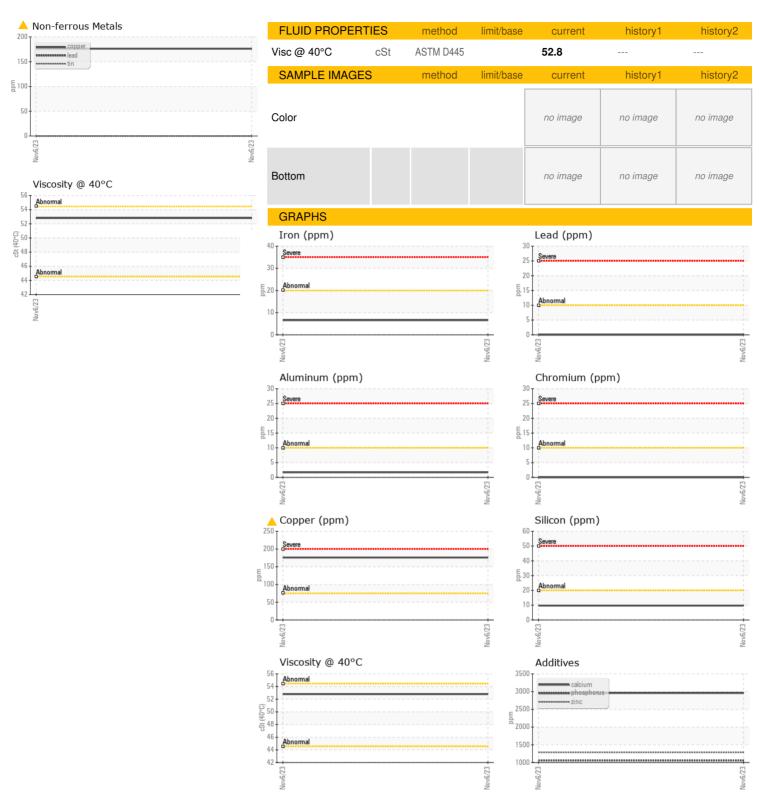
Fluid Condition

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

(GAL)						
` ′				Nov2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0868159		
Sample Date		Client Info		06 Nov 2023		
Machine Age	hrs	Client Info		13248		
Oil Age	hrs	Client Info		277		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	J	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	7		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	<u> </u>		
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		102		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		6		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		73		
Calcium	ppm	ASTM D5185m		2959		
Phosphorus	ppm	ASTM D5185m		1059		
Zinc	ppm	ASTM D5185m		1286		
Sulfur	ppm	ASTM D5185m		2996		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	0		
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	▲ MODER		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Free Water	scalar	*Visual		NEG		
12:50) Pov: 1				Cant	oot/Location: NI	II 2 CLDMVI



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

Test Package : MOB 1

: WC0868159 : 06011784 : 10750928

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Nov 2023 : 22 Nov 2023 Diagnosed Diagnostician : Jonathan Hester

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

C.L. BENTON & SONS INC

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