

PROBLEM SUMMARY

Sample Rating Trend

VISCOSITY



CATERPILLAR 330C HOE 121

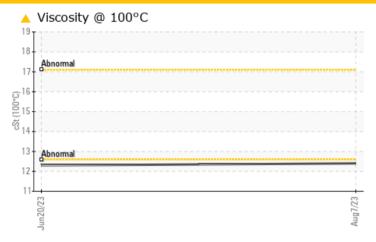
Component **Diesel Engine**

PETRO CANADA 15W40 (--- GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS Sample Status MARGINAL **ATTENTION** Visc @ 100°C cSt ASTM D445 **12.4** <u>12.3</u>

Customer Id: CLBMYR **Sample No.:** WC0517492 Lab Number: 05939124 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS									
Action	Status Date Done By Description								
Change Fluid			?	Oil and filter change at the time of sampling has been noted.					
Change Filter			?	Oil and filter change at the time of sampling has been noted.					

HISTORICAL DIAGNOSIS

20 Jun 2023 Diag: Jonathan Hester

VISCOSITY



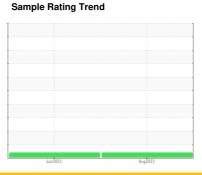
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.





OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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.

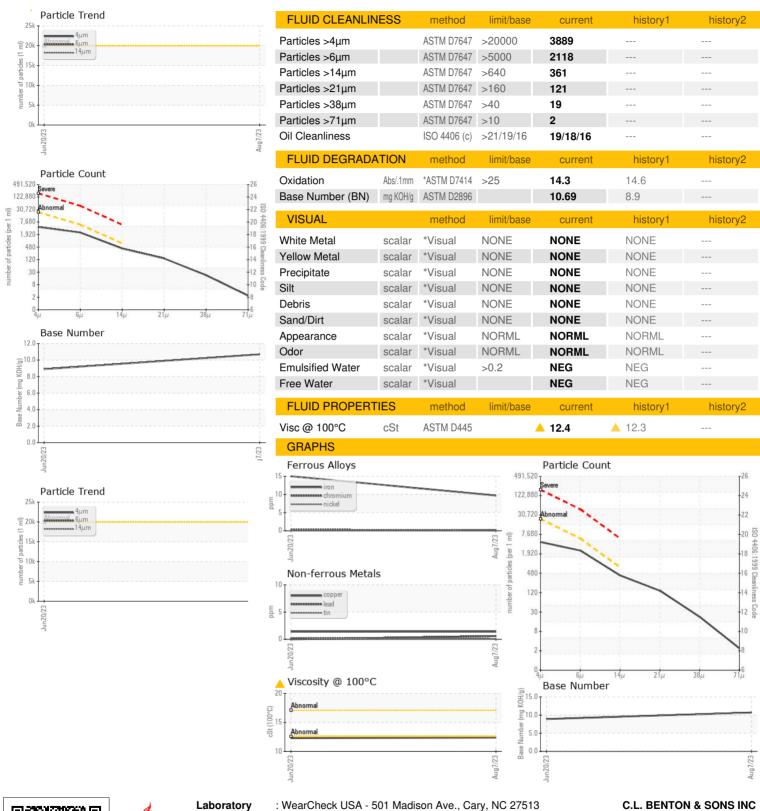
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

40 (GAL)		L	Jun2023	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0517492	WC0822335	
Sample Date		Client Info		07 Aug 2023	20 Jun 2023	
Machine Age	hrs	Client Info		8725	8473	
Oil Age	hrs	Client Info		252	263	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ATTENTION	MARGINAL	
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.2	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	15	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	1	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	1	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	12	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		65	62	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		951	968	
Calcium	ppm	ASTM D5185m		1163	1237	
Phosphorus	ppm	ASTM D5185m		1086	1094	
Zinc	ppm	ASTM D5185m		1273	1361	
Sulfur	ppm	ASTM D5185m		3296	3946	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	10	
Sodium	ppm	ASTM D5185m		0	1	
Potassium	ppm	ASTM D5185m	>20	1	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	6.6	6.7	



OIL ANALYSIS REPORT







Certificate L2367

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

: WC0517492

: 05939124 : 10629736 Received : 30 Aug 2023 Diagnosed : 01 Sep 2023 : Don Baldridge Diagnostician

Test Package : IND 2 (Additional Tests: PrtCount)

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)

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Contact/Location: NEIL ? - CLBMYR