

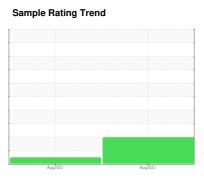
PROBLEM SUMMARY



[1ST CLEAN] CATERPILLAR 30-341 (S/N CAT0349FHBZ220803)

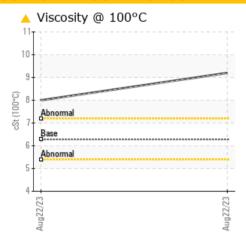
Hydraulic System

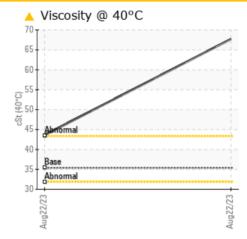
PETRO CANADA PRODURO TO-4 SAE 10W (20 LTR)

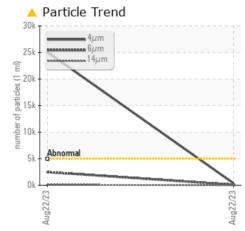




COMPONENT CONDITION SUMMARY







RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	NORMAL			
Particles >4µm		ASTM D7647	>5000	25098	369			
Particles >6µm		ASTM D7647	>1300	4 2485	93			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 22/18/14	16/14/11			
Visc @ 40°C	cSt	ASTM D7279(m)	35.38	67.7	43.6			
Visc @ 100°C	cSt	ASTM D7279(m)	6.28	<u> </u>	8			

Customer Id: LESNEW Sample No.: PC0052388 Lab Number: 02579106 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

22 Aug 2023 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil viscosity is higher than typical. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





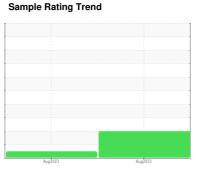
OIL ANALYSIS REPORT



[1ST CLEAN] CATERPILLAR 30-341 (S/N CAT0349FHBZ220803)

Hydraulic System

PETRO CANADA PRODURO TO-4 SAE 10W (20 LTR)





DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

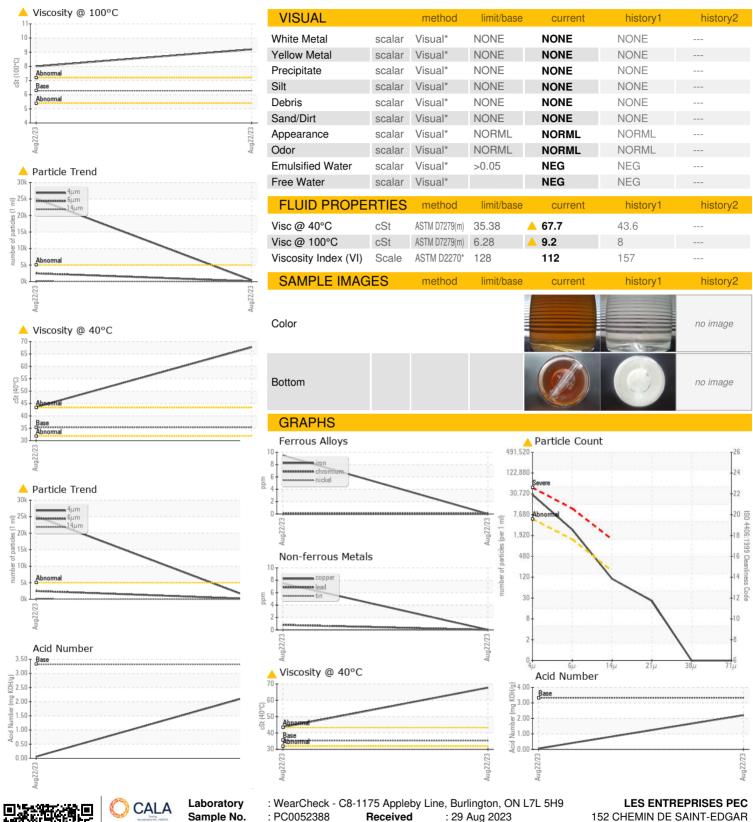
Fluid Condition

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

IO TO TOAL TOW	20 2111,		Aug2023	Aug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0052388	PC0052384	
Sample Date		Client Info		22 Aug 2023	22 Aug 2023	
Machine Age	hrs	Client Info		6080	6082	
Oil Age	hrs	Client Info		2000	2	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	NORMAL	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	10	0	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	
Titanium	ppm	ASTM D5185(m)		<1	0	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>20	1	0	
Lead	ppm	ASTM D5185(m)	>20	<1	0	
Copper	ppm	ASTM D5185(m)	>20	8	0	
Tin	ppm	ASTM D5185(m)	>20	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	6	0	
Barium	ppm	ASTM D5185(m)	0	<1	0	
Molybdenum	ppm	ASTM D5185(m)	1	2	0	
Manganese	ppm	ASTM D5185(m)	1	<1	0	
Magnesium	ppm	ASTM D5185(m)	1	180	<1	
Calcium	ppm	ASTM D5185(m)	2864	2430	3	
Phosphorus	ppm	ASTM D5185(m)	987	1061	640	
Zinc	ppm	ASTM D5185(m)	1162	1202	3	
Sulfur	ppm	ASTM D5185(m)	3713	3427	1334	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	9	0	
Sodium	ppm	ASTM D5185(m)		2	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	25098	369	
Particles >6µm		ASTM D7647	>1300	4 2485	93	
Particles >14μm		ASTM D7647	>160	95	12	
Particles >21µm		ASTM D7647	>40	22	4	
Particles >38µm		ASTM D7647	>10	0	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/18/14	16/14/11	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT





ISO 17025:2017 Accredited

Laboratory

Sample No. Lab Number **Unique Number**

: PC0052388 : 02579106

Received : 5632166

: 30 Aug 2023 Diagnosed Diagnostician : Kevin Marson

Test Package : IND 2 (Additional Tests: KV100, TAN MAN, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

152 CHEMIN DE SAINT-EDGAR NEW RICHMOND, QC **CA G0C 2B0**

Contact: Service Manager info@lepec.ca

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