

PROBLEM SUMMARY

Sample Rating Trend

OFF SPEC



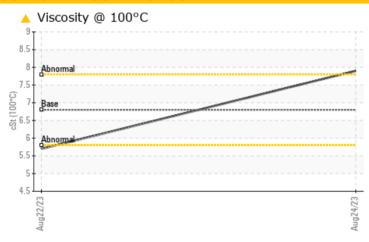


[2ND CLEAN]
Machine Id
CATERPILLAR 30-398 (S/N CAT00349CRYG20094)

Hydraulic System

PETRO CANADA ENVIRON AW 46 (250 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS											
Sample Status				ABNORMAL	NORMAL						
Visc @ 100°C	cSt	ASTM D7279(m)	6.8	7.9	5.7						
Viscosity Index (VI)	Scale	ASTM D2270*	104	154	124						

Customer Id: LESNEW Sample No.: PC0052381 Lab Number: 02579105 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

There are no recommended actions for this sample.

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





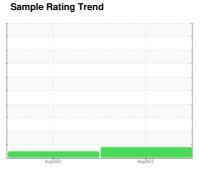
OIL ANALYSIS REPORT



[2ND CLEAN] CATERPILLAR 30-398 (S/N CAT00349CRYG20094)

Hydraulic System

PETRO CANADA ENVIRON AW 46 (250 LTR)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

▲ Fluid Condition

The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

110N AW 40 (25)	J L 111)		Aug2023	Aug 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0052381	PC0052392	
Sample Date		Client Info		24 Aug 2023	22 Aug 2023	
Machine Age	hrs	Client Info		3214	3212	
Oil Age	hrs	Client Info		2	1500	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				ABNORMAL	NORMAL	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	8	
Chromium	ppm	ASTM D5185(m)	>20	0	<1	
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	0	3	
Lead	ppm	ASTM D5185(m)	>20	0	<1	
Copper	ppm	ASTM D5185(m)	>20	<1	11	
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)	0	0	22	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	0	0	12	
Manganese	ppm	ASTM D5185(m)	0	0	<1	
Magnesium	ppm	ASTM D5185(m)	0	<1	146	
Calcium	ppm	ASTM D5185(m)	0	3	2389	
Phosphorus	ppm	ASTM D5185(m)	650	650	923	
Zinc	ppm	ASTM D5185(m)	0	2	1031	
Sulfur	ppm	ASTM D5185(m)	1280	1347	3409	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	7	
Sodium	ppm	ASTM D5185(m)		0	3	
Potassium	ppm	ASTM D5185(m)	>20	0	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
	A.L. /	4.0T1.4.D=00.44				
Nitration	Abs/cm	ASTM D7624*		2.1		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

Test Package

: PC0052381

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: 02579105 : 5632165

Received Diagnosed

: 05 Sep 2023 Diagnostician : Kevin Marson : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, VI)

: 29 Aug 2023

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.

LES ENTREPRISES PEC 152 CHEMIN DE SAINT-EDGAR

NEW RICHMOND, QC **CA G0C 2B0**

> Contact: Service Manager info@lepec.ca

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