

PROBLEM SUMMARY

Sample Rating Trend

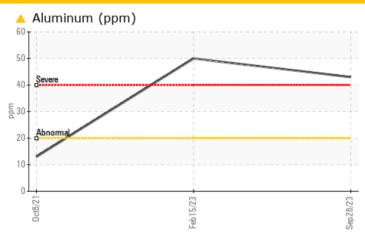
WEAR

Store 4 - Fairmont PRINOTH T14R 935310203

Component **Diesel Engine**

CAT DIESEL ENGINE OIL 15W40 (5 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Aluminum	ppm	ASTM D5185m	>20	43	50	13		

Customer Id: LESMAROH Sample No.: LEC0045367 Lab Number: 05966085 Test Package: CONST



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

15 Feb 2023 Diag: Don Baldridge

WEAR



Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Piston and cylinder wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



08 Oct 2021 Diag: Jonathan Hester

WEAR



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. 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. Confirm oil type.





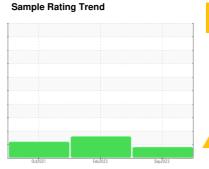
OIL ANALYSIS REPORT

Store 4 - Fairmont PRINOTH T14R 935310203

Component

Diesel Engine

CAT DIESEL ENGINE OIL 15W40 (5 GAL)





DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

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

Contamination

There is no indication of any contamination in the

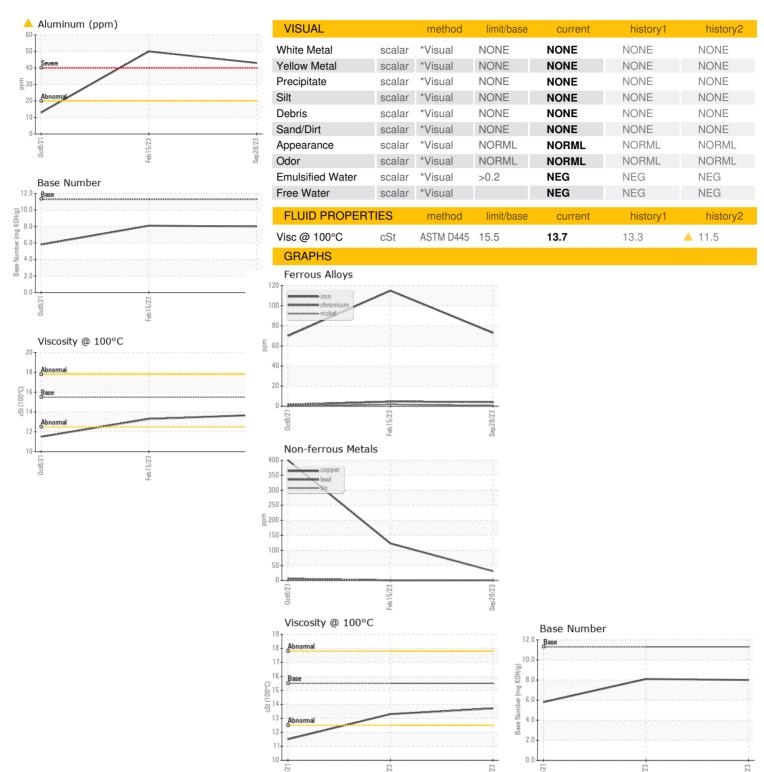
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		0+2021 Feb 2023 Sep 2023				
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LEC0045367	LEC0038559	LEC0023393
Sample Date		Client Info		28 Sep 2023	15 Feb 2023	08 Oct 2021
Machine Age	hrs	Client Info		1402	949	497
Oil Age	hrs	Client Info		453	452	497
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.1
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	73	<u> </u>	70
Chromium	ppm	ASTM D5185m	>20	4	5	2
Nickel	ppm	ASTM D5185m	>4	<1	2	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	43	50	13
Lead	ppm	ASTM D5185m	>40	<1	0	6
Copper	ppm	ASTM D5185m	>330	31	<u>123</u>	<u>400</u>
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		239	166	44
Barium	ppm	ASTM D5185m		<1	<1	0
Molybdenum	ppm	ASTM D5185m		249	208	49
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m		828	682	162
Calcium	ppm	ASTM D5185m		1511	1631	2022
Phosphorus	ppm	ASTM D5185m		918	879	934
Zinc	ppm	ASTM D5185m	1460	1152	1103	1082
Sulfur	ppm	ASTM D5185m		3112	3588	2932
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>!20	11	12	9
Sodium	ppm	ASTM D5185m		6	4	1
Potassium	ppm	ASTM D5185m	>20	6	6	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.9	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	23.7	28.8
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	19.4	30.4
Base Number (BN)	mg KOH/g	ASTM D2896	11.3	8.0	8.1	5.8
Dase Mullipel (DIN)	ilig Norl/g	AOTIVI DZ030	11.0	0.0	0.1	5.0



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0045367

: 05966085 : 10672636 Received : 02 Oct 2023 Diagnosed

: 03 Oct 2023 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: TBN)

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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