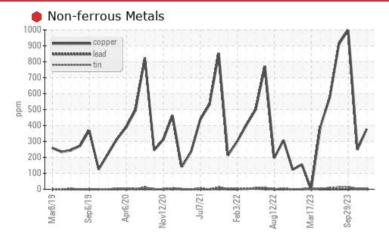


PROBLEM SUMMARY

Store 1 - Cowen [146783] **PETERBILT 389 1XPXD40X0KD604035** Component

Front Differential Fluic GEAR OIL SAE 75W90 (5 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	SEVERE		
Copper	ppm	ASTM D5185m	>100	9378	4 249	998		

Customer Id: LESMAROH Sample No.: LEC0041129 Lab Number: 06061482 Test Package: CONST



To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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



RECOMMENDED AC	TIONS			
Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS





17 Nov 2023 Diag: Sean Felton

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



view report

29 Sep 2023 Diag: Sean Felton

WEAR

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

07 Aug 2023 Diag: Sean Felton



We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.







OIL ANALYSIS REPORT

Sample Number

mls

mls

Sample Date

Machine Age

Oil Changed

Oil Age

Store 1 - Cowen [146783] PETERBILT 389 1XPXD40X0KD604035 Component

Front Differential Fluic GEAR OIL SAE 75W90 (5 GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛑 Wear

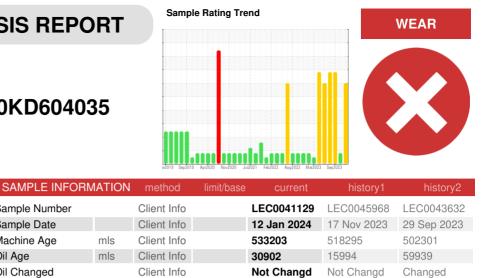
Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.



Sample Status				SEVERE	ABNORMAL	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		30	18	28
Iron	ppm	ASTM D5185m	>500	82	47	147
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>25	0	2	0
Copper	ppm	ASTM D5185m	>100	978 🏓	<u> </u>	998
Tin	ppm	ASTM D5185m	>10	5	4	1 5
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	217	206	186
Barium	ppm	ASTM D5185m	200	0	0	0
Maluhdanum			10	0	0	0

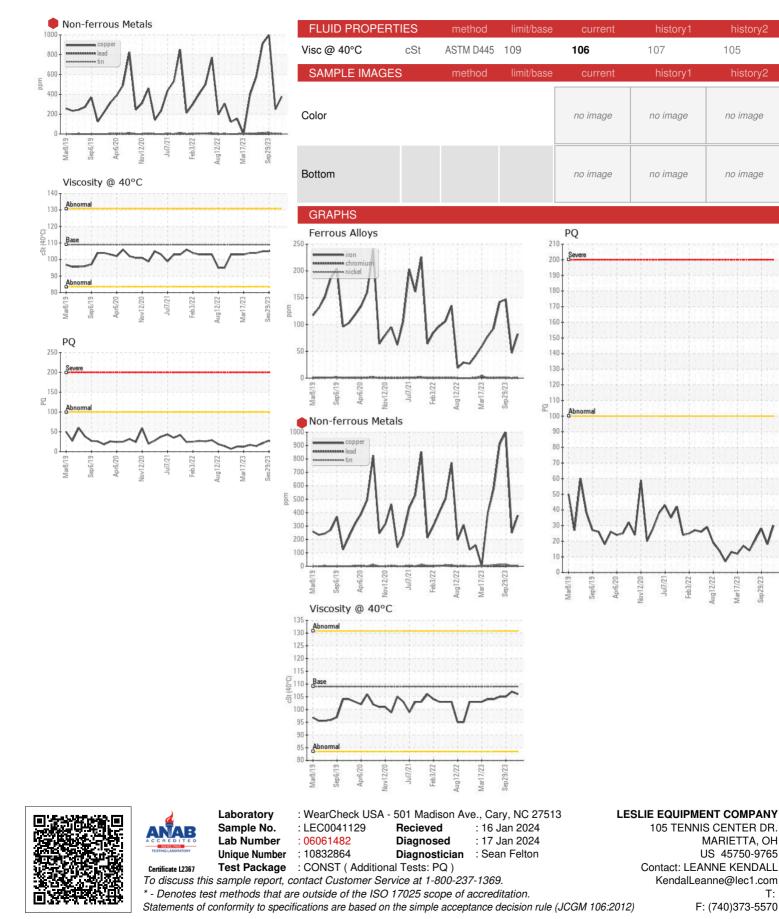
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	0
Manganese	ppm	ASTM D5185m		2	<1	2
Magnesium	ppm	ASTM D5185m	12	1	0	4
Calcium	ppm	ASTM D5185m	150	7	4	19
Phosphorus	ppm	ASTM D5185m	1650	1458	1386	1453
Zinc	ppm	ASTM D5185m	125	5	2	11
Sulfur	ppm	ASTM D5185m	22500	23434	23645	20943

CONTAMINANTS)	methoa	limit/base	current	nistory i	nistory2
Silicon	ppm	ASTM D5185m	>75	24	17	70
Sodium	ppm	ASTM D5185m		0	1	1
Potassium	ppm	ASTM D5185m	>20	0	0	0

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual	1	NEG	N-WENNIFER	ARMENTROUT



OIL ANALYSIS REPORT



Report Id: LESMAROH [WUSCAR] 06061482 (Generated: 01/18/2024 13:53:49) Rev: 1

Submitted By: STORE 1 - COWEN - JENNIFER ARMENTROUT

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