



PROBLEM SUMMARY

Sample Rating Trend

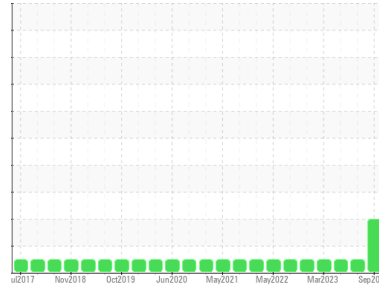
VISCOSITY



Machine Id
PETERBILT 21723

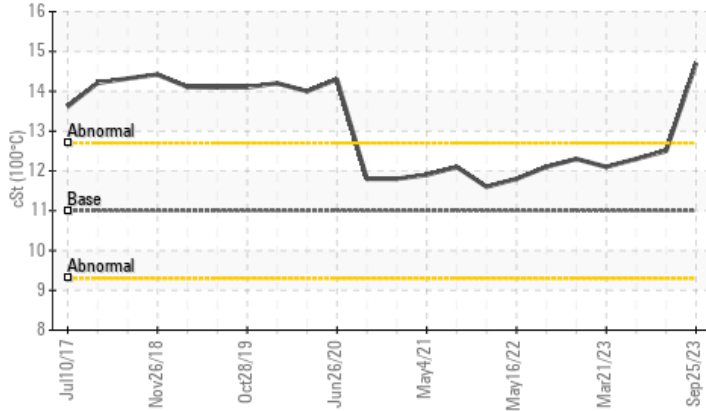
Component
Diesel Engine

Fluid
SHELL ROTELLA T 10W30 (52 QTS)

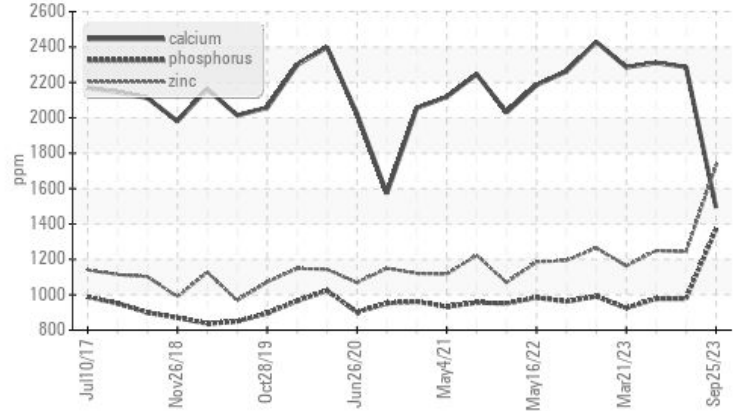


COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



▲ Additives



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	NORMAL
Magnesium	ppm	ASTM D5185m	20	▲ 1374	96	39
Phosphorus	ppm	ASTM D5185m	948	▲ 1368	978	978
Zinc	ppm	ASTM D5185m	893	▲ 1731	1242	1249
Sulfur	ppm	ASTM D5185m		▲ 3752	3620	4047
Visc @ 100°C	cSt	ASTM D445	11.0	▲ 14.7	12.5	12.3

Customer Id: GUYGRE
Sample No.: WC0832035
Lab Number: 05964036
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

24 Jul 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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.

view report



15 May 2023 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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.

view report



21 Mar 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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.

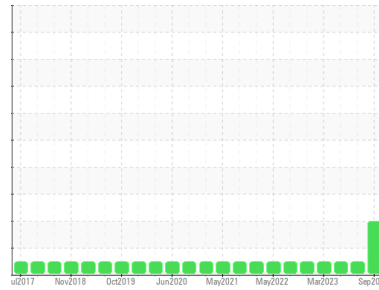
view report





OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
PETERBILT 21723

Component
Diesel Engine

Fluid
SHELL ROTELLA T 10W30 (52 QTS)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

▲ Fluid Condition

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0832035	WC0831992	WC0801684
Sample Date	Client Info		25 Sep 2023	24 Jul 2023	15 May 2023
Machine Age	mls	Client Info	265009	255746	243957
Oil Age	mls	Client Info	4263	11789	11908
Oil Changed	Client Info		N/A	Changed	Changed
Sample Status			ATTENTION	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >110	23	11	12
Chromium	ppm	ASTM D5185m >4	2	<1	<1
Nickel	ppm	ASTM D5185m >2	<1	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >25	6	2	<1
Lead	ppm	ASTM D5185m >45	<1	1	<1
Copper	ppm	ASTM D5185m >85	3	<1	<1
Tin	ppm	ASTM D5185m >4	<1	<1	<1
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 269	6	71	94
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m 0	84	18	6
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m 20	▲ 1374	96	39
Calcium	ppm	ASTM D5185m 1521	1494	2287	2311
Phosphorus	ppm	ASTM D5185m 948	▲ 1368	978	978
Zinc	ppm	ASTM D5185m 893	▲ 1731	1242	1249
Sulfur	ppm	ASTM D5185m	▲ 3752	3620	4047

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	7	4	5
Sodium	ppm	ASTM D5185m	5	0	2
Potassium	ppm	ASTM D5185m >20	5	10	9

INFRA-RED

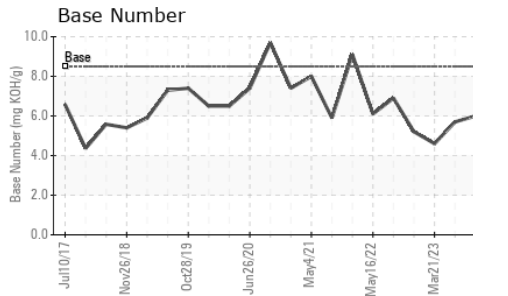
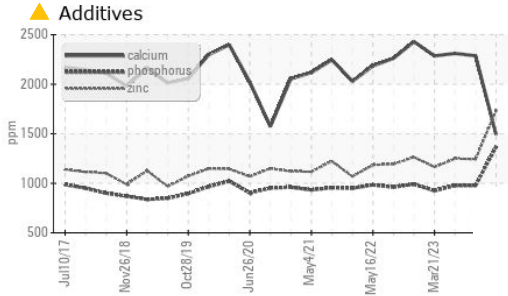
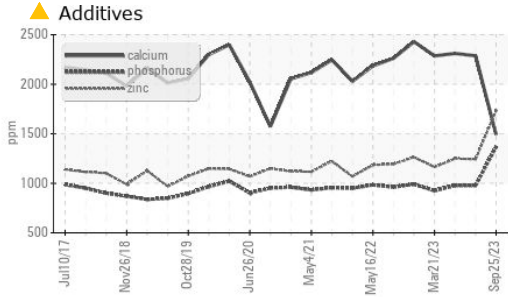
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624 >20	9.0	9.8	9.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.9	23.2	24.2

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.9	18.9	19.6
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	6.2	6.0	5.7



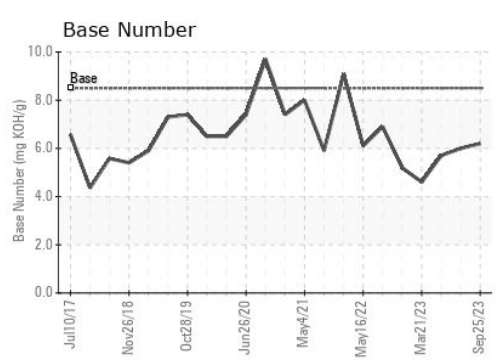
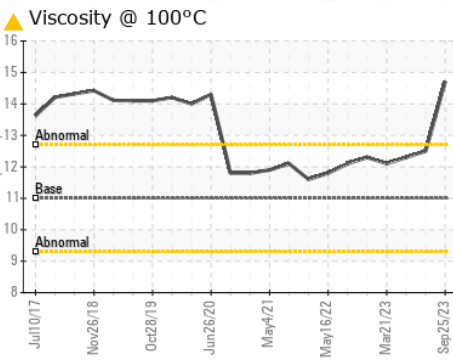
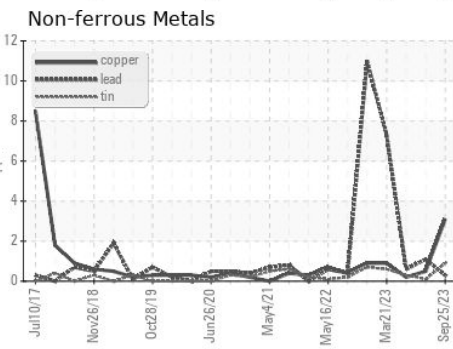
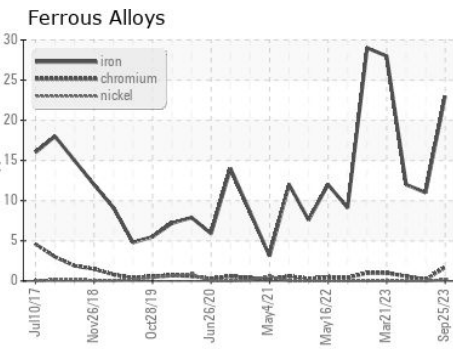
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	11.0	▲ 14.7	12.5	12.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0832035 **Received** : 28 Sep 2023
Lab Number : 05964036 **Diagnosed** : 01 Oct 2023
Unique Number : 10670587 **Diagnostician** : Don Baldrige
Test Package : FLEET

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Certificate L2367
 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)