**WEAR** CONTAMINATION **FLUID CONDITION** 

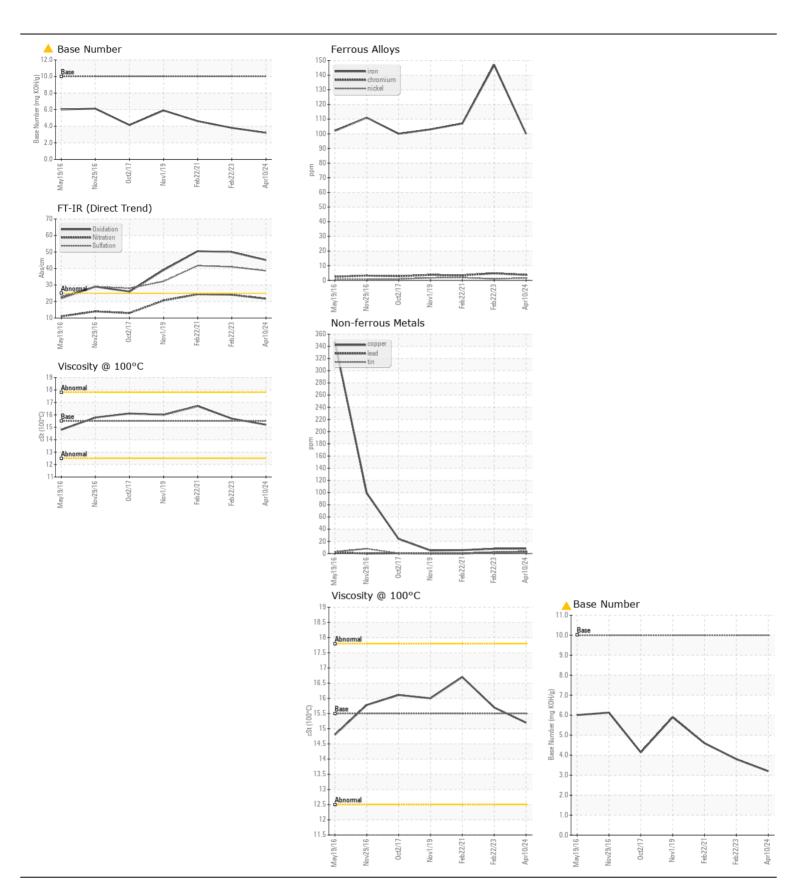
NORMAL **NORMAL ABNORMAL** 

Machine Id

## **PETERBILT T00723**

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0856132	WC0757894	WC049766
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		10 Apr 2024	22 Feb 2023	22 Feb 202
	Machine Age	mls	Client Info		126009	108823	76838
	Oil Age	mls	Client Info		17186	31985	12000
	Filter Age	mls	Client Info		17186	31985	12000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	100	147	107
VEAIL	Chromium	ppm	ASTM D5185m		4	5	3
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	1	2
	Titanium	ppm	ASTM D5185m		- <1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	1	<1
	Aluminum	ppm	ASTM D5185m		8	7	6
	Lead	ppm	ASTM D5185m		3	2	0
	Copper	ppm	ASTM D5185m		8	8	6
	Tin	ppm	ASTM D5185m	>15	2	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTM DE10E	05	00	04	
CONTAMINATION	Silicon	ppm	ASTM D5185m		20	21	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		10	9	20
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water Glycol		WC Method WC Method	>0.2	NEG NEG	NEG NEG	NEG NEG
	Soot %	%	*ASTM D7844	>3	1.9	2.1	1.8
	Nitration	Abs/cm	*ASTM D7624	>20	21.7	24.1	24.4
	Sulfation	Abs/.1mm	*ASTM D7415		38.6	41.0	41.7
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		11	8	9
The BN level is low. The condition of the oil is acceptable for the time	Boron	ppm	ASTM D5185m		16	16	34
in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		85	80	44
	Manganese	ppm	ASTM D5185m		1	3	1
	Magnesium Calcium	ppm	ASTM D5185m		163	275	375
	Phosphorus	ppm	ASTM D5185m ASTM D5185m		2060 1035	1898 956	1954 1002
	Zinc	ppm	ASTM D5185m		1132	1254	1159
	Sulfur	ppm	ASTM D5185m		3272	3391	2385
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	45.1	49.9	50.5
	Base Number (BN)		ASTM D2896		▲ 3.2	3.8	4.6
	Dado Halliber (DIV)	my nong	. 10 1111 D2000	10		0.0	1.0







Certificate L2367

Laboratory

Sample No.

Lab Number : 06147955

: WC0856132 Unique Number: 10978033

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 15 Apr 2024 Diagnosed : 16 Apr 2024 - Don Baldridge

: 12 Apr 2024

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)

**CJ MILLER LLC** 2903 DEDE RD FINKSBURG, MD

US 21048 Contact: JOE ROSS jross@cjmillerllc.com

T: (410)239-8006 F: (410)239-1051