



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 21723
Component
Diesel Engine
Fluid
SHELL ROTELLA T 10W30 (52 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0909714	WC0866876	WC0832035
Sample Date		Client Info		09 Apr 2024	15 Jan 2024	25 Sep 2023
Machine Age	mls	Client Info		289647	278230	265009
Oil Age	mls	Client Info		11417	13221	4263
Filter Age	mls	Client Info		11417	13221	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	8	9	23
Chromium	ppm	ASTM D5185m	>4	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	6
Lead	ppm	ASTM D5185m	>45	<1	<1	<1
Copper	ppm	ASTM D5185m	>85	0	0	3
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

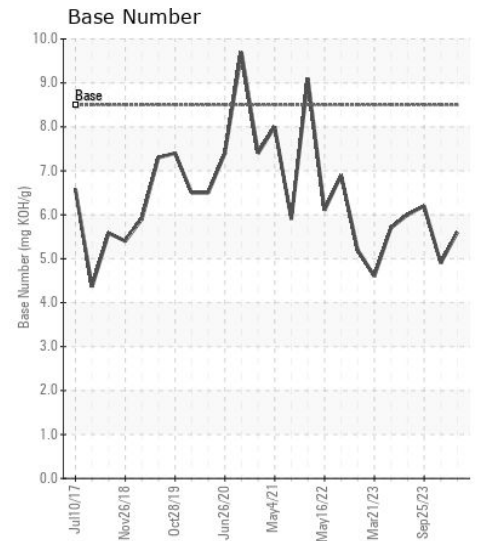
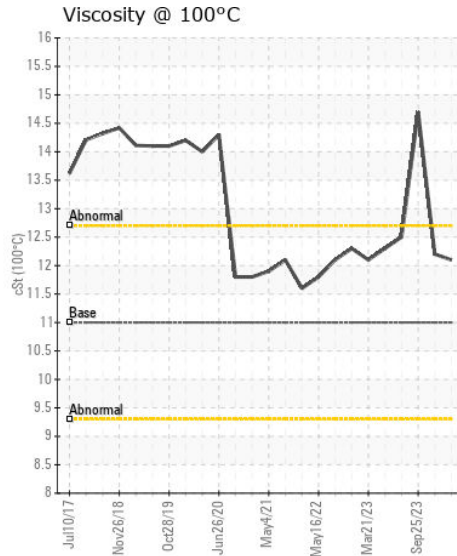
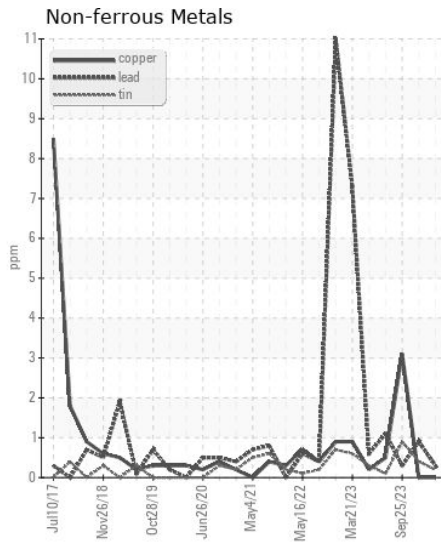
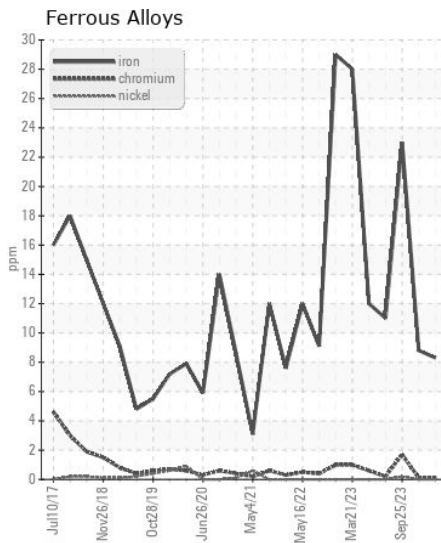
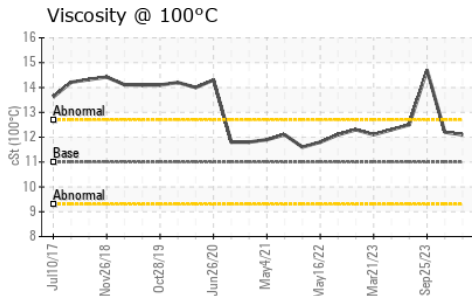
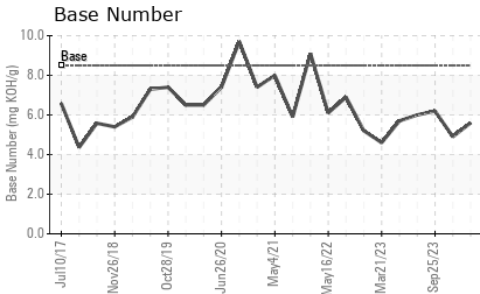
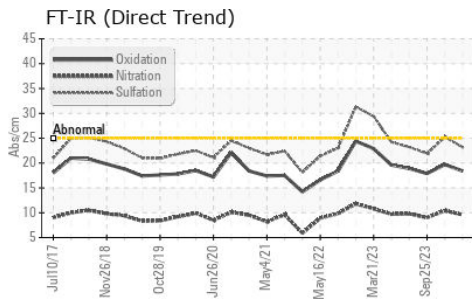
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	4	5	7
Potassium	ppm	ASTM D5185m	>20	10	8	5
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.4	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	25.2	21.9
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	>0.2	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185m		2	2	5
Boron	ppm	ASTM D5185m	269	149	78	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	8	84
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	20	39	74	1374
Calcium	ppm	ASTM D5185m	1521	2485	2126	1494
Phosphorus	ppm	ASTM D5185m	948	1140	1030	1368
Zinc	ppm	ASTM D5185m	893	1366	1249	1731
Sulfur	ppm	ASTM D5185m		4338	3355	3752
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	19.7	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	4.9	6.2
Visc @ 100°C	cSt	ASTM D445	11.0	12.1	12.2	14.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0909714
Lab Number : 06149970
Unique Number : 10980048
Test Package : FLEET

GUY M TURNER & TURNER TRANSFER
 4505 SOUTH HOLDEN ROAD
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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)