



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 21402
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		WC0866880	WC0832028	WC0801722
Sample Date		Client Info		12 Jan 2024	14 Sep 2023	23 Mar 2023
Machine Age	mls	Client Info		202785	194823	184243
Oil Age	mls	Client Info		7962	10580	8119
Filter Age	mls	Client Info		0	0	8119
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	9	16	11
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	2
Lead	ppm	ASTM D5185m	>45	8	30	3
Copper	ppm	ASTM D5185m	>85	1	2	<1
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

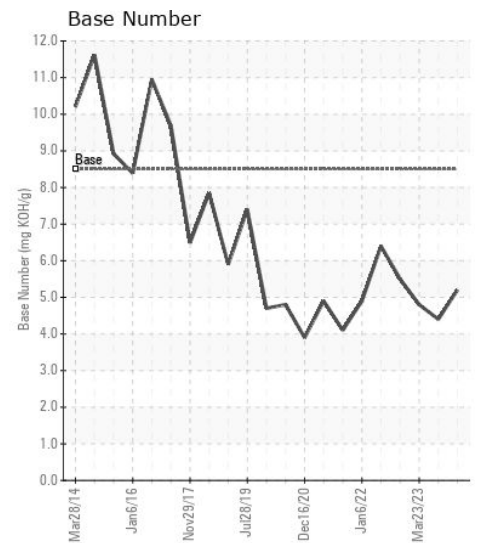
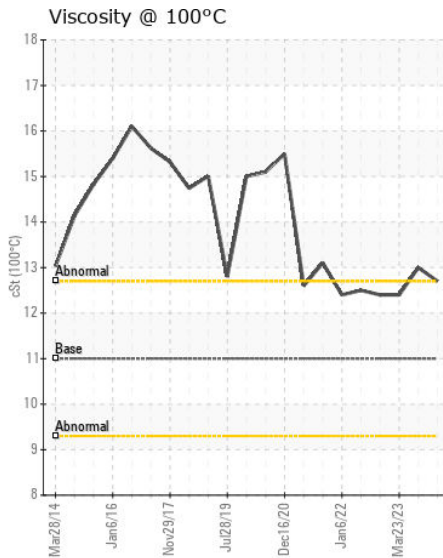
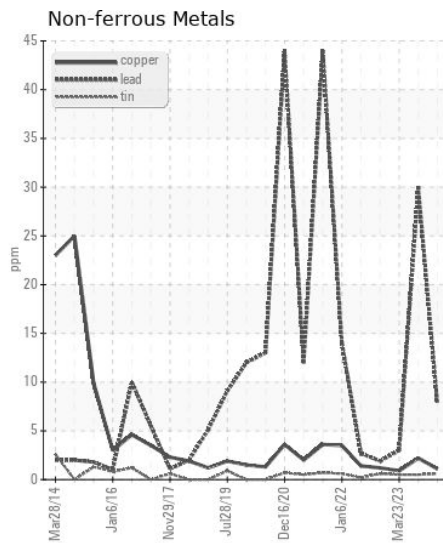
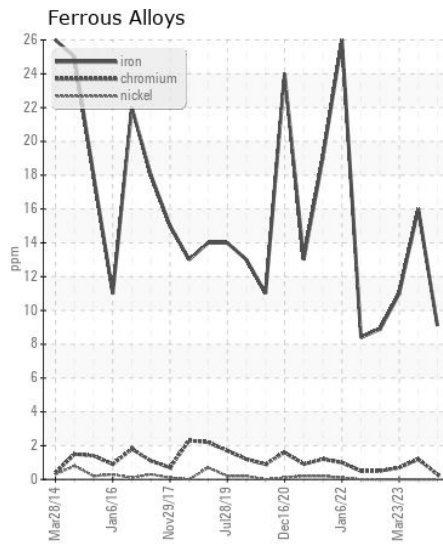
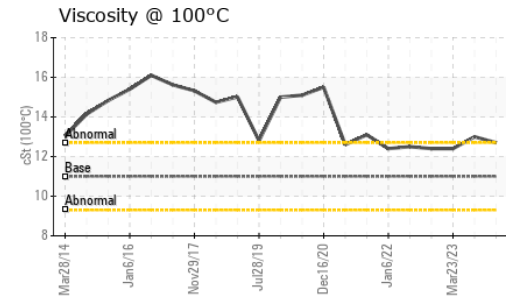
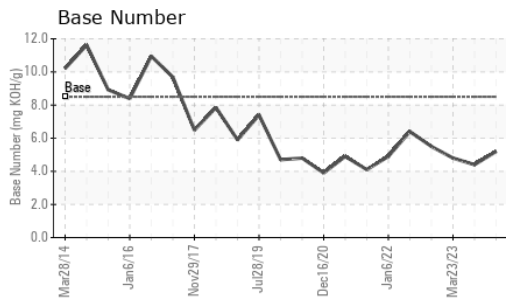
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	5	6	5
Potassium	ppm	ASTM D5185m	>20	11	12	9
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	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	12.0	12.2	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.7	29.6	27.2
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	2	2
Boron	ppm	ASTM D5185m	269	83	66	98
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	8	7	4
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	20	80	42	51
Calcium	ppm	ASTM D5185m	1521	2259	2608	2389
Phosphorus	ppm	ASTM D5185m	948	1108	1048	1027
Zinc	ppm	ASTM D5185m	893	1310	1289	1302
Sulfur	ppm	ASTM D5185m		3592	3895	3974
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.5	26.5	22.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.2	4.4	4.8
Visc @ 100°C	cSt	ASTM D445	11.0	12.7	▲ 13.0	12.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0866880 **Received** : 17 Jan 2024
Lab Number : 06063352 **Diagnosed** : 19 Jan 2024
Unique Number : 10834734 **Diagnostician** : Don Baldrige
Test Package : FLEET

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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)