



WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[775661]

Machine Id

PETERBILT 845

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 10W30 (44 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0802047	WC0886842	WC0626748
Sample Date		Client Info		17 May 2024	15 Feb 2024	20 Dec 2021
Machine Age	hrs	Client Info		468685	467919	426910
Oil Age	hrs	Client Info		468685	24000	0
Filter Age	hrs	Client Info		0	24000	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	3	14	16
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>150	1	1	2
Copper	ppm	ASTM D5185m	>90	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

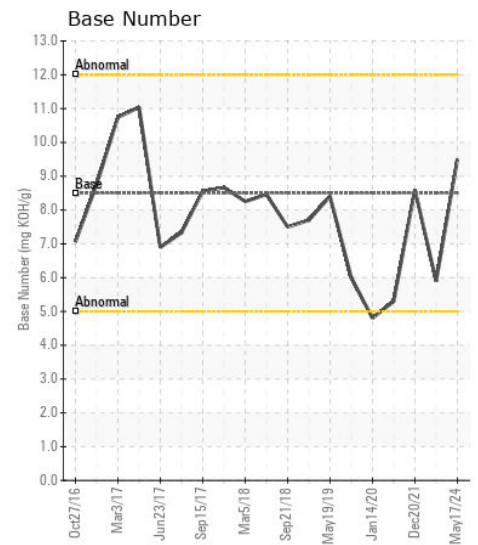
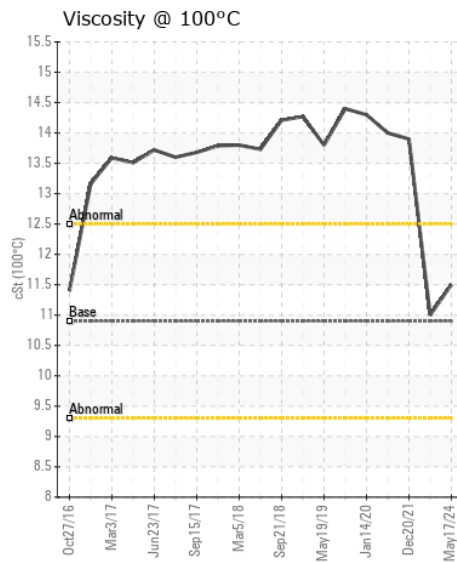
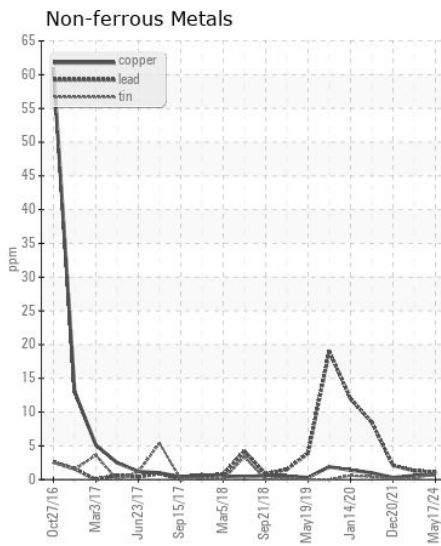
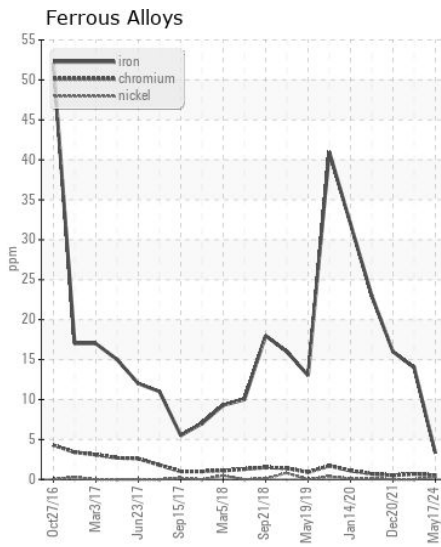
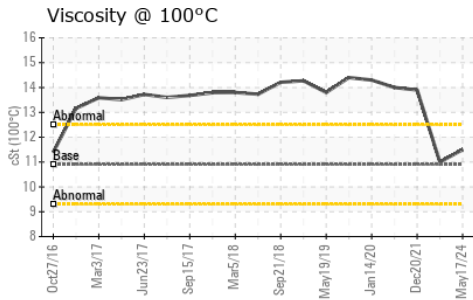
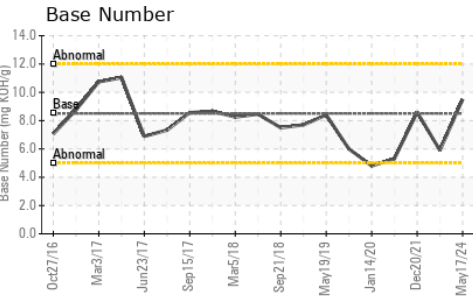
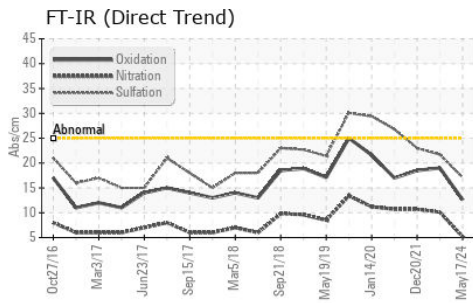
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	4	4	4
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	0.1	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.2	10.1	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	21.7	23
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	3	0
Boron	ppm	ASTM D5185m	250	15	3	3
Barium	ppm	ASTM D5185m	10	0	<1	0
Molybdenum	ppm	ASTM D5185m	100	58	58	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	842	958	982
Calcium	ppm	ASTM D5185m	3000	1219	1030	1279
Phosphorus	ppm	ASTM D5185m	1150	877	985	1100
Zinc	ppm	ASTM D5185m	1350	1183	1199	1381
Sulfur	ppm	ASTM D5185m	4250	3295	2839	2957
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	19.0	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.5	5.9	8.6
Visc @ 100°C	cSt	ASTM D445	10.9	11.5	11.0	13.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0802047
Lab Number : 06190249
Unique Number : 11047001
Test Package : FLEET
Received : 24 May 2024
Tested : 25 May 2024
Diagnosed : 25 May 2024 - Wes Davis

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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)