



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 365 X41 (S/N 216419)
 Component
Diesel Engine
 Fluid
VALVOLINE PREMIUM BLUE 2000 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0885562	WC0849050	WC0793081
Sample Date		Client Info		20 May 2024	03 Nov 2023	28 Feb 2023
Machine Age	hrs	Client Info		15659	14643	13857
Oil Age	hrs	Client Info		1016	986	1042
Filter Age	hrs	Client Info		1016	986	1042
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	22	18	24
Chromium	ppm	ASTM D5185m	>5	<1	0	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	0	1
Lead	ppm	ASTM D5185m	>150	8	6	9
Copper	ppm	ASTM D5185m	>90	<1	2	1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

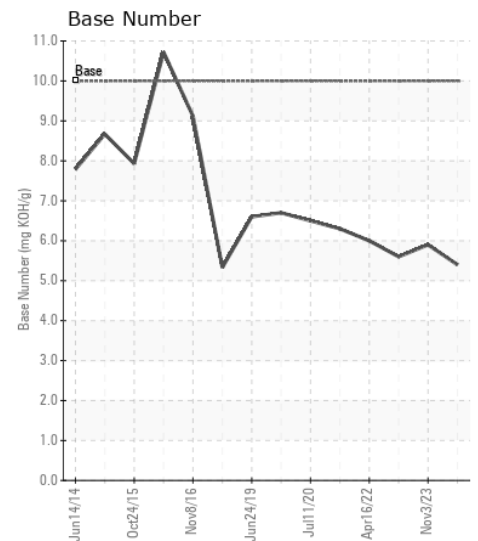
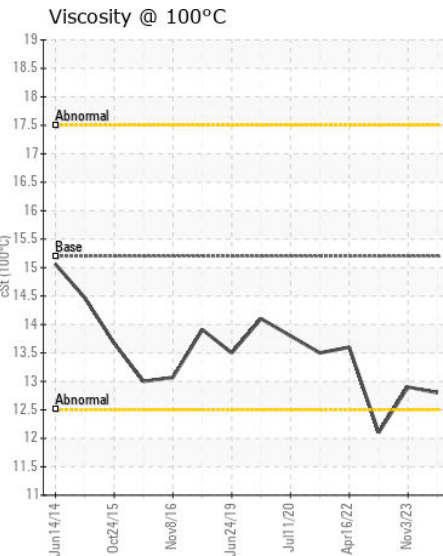
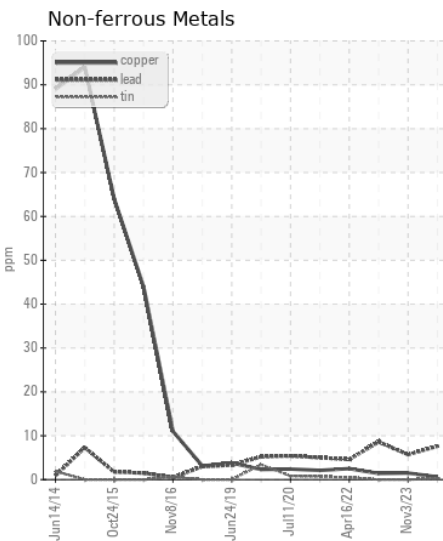
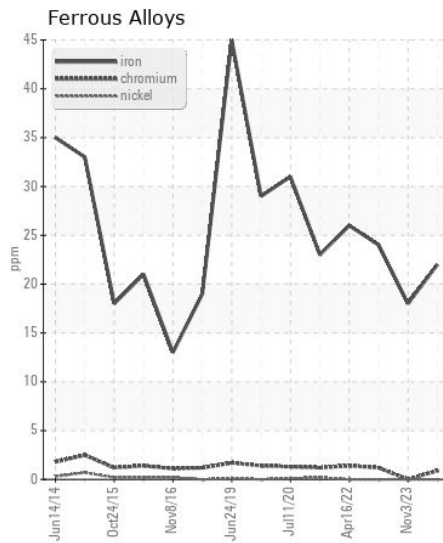
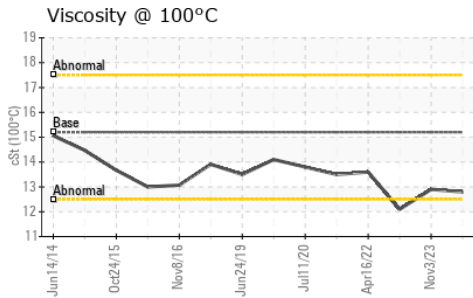
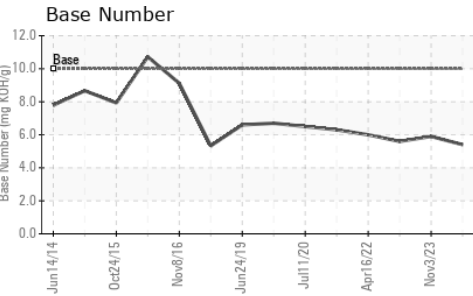
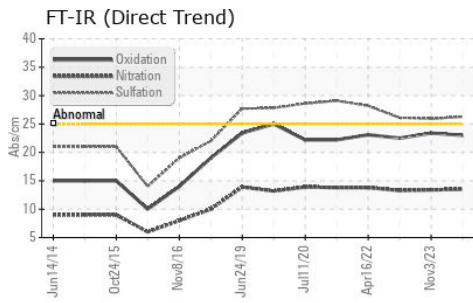
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	5	5	6
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	0.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	2.1	1.5	1.3
Nitration	Abs/cm	*ASTM D7624	>20	13.5	13.4	13.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	25.9	26.1
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	3
Boron	ppm	ASTM D5185m		33	25	31
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m		63	75	74
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		726	768	582
Calcium	ppm	ASTM D5185m		1155	1373	1311
Phosphorus	ppm	ASTM D5185m		739	755	651
Zinc	ppm	ASTM D5185m		891	960	827
Sulfur	ppm	ASTM D5185m		2844	2614	2847
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	23.4	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	5.4	5.9	5.6
Visc @ 100°C	cSt	ASTM D445	15.2	12.8	12.9	12.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0885562 **Received** : 24 May 2024
Lab Number : 06191709 **Tested** : 29 May 2024
Unique Number : 11048461 **Diagnosed** : 29 May 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

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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)