



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 92677
Component
Diesel Engine
Fluid
VALVOLINE PREMIUM BLUE 2000 15W40 (11 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0811878	WC0811864	WC0712591
Sample Date		Client Info		28 Mar 2024	13 Oct 2023	21 Apr 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		15000	15000	15000
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	19	34	33
Chromium	ppm	ASTM D5185m	>6	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	1	3	2
Lead	ppm	ASTM D5185m	>10	<1	4	<1
Copper	ppm	ASTM D5185m	>150	4	6	7
Tin	ppm	ASTM D5185m	>4	0	<1	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

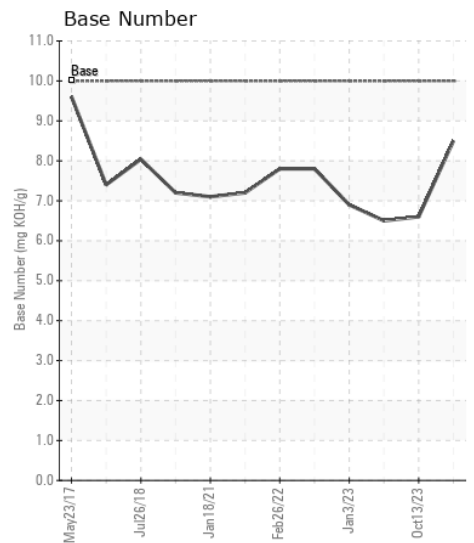
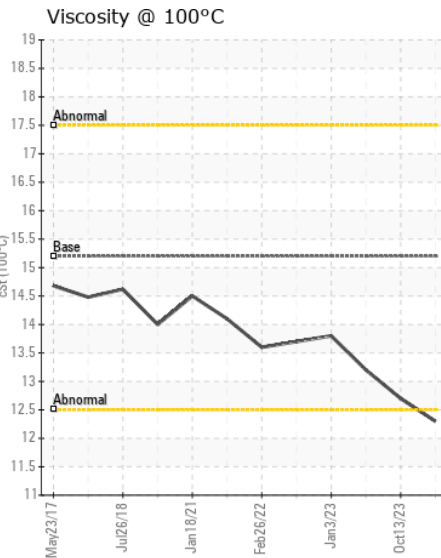
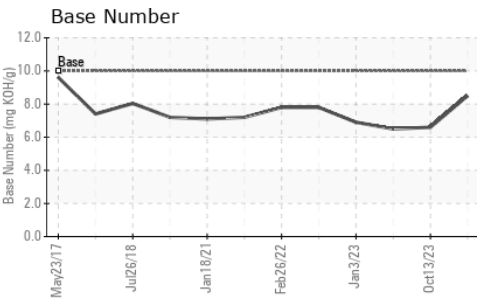
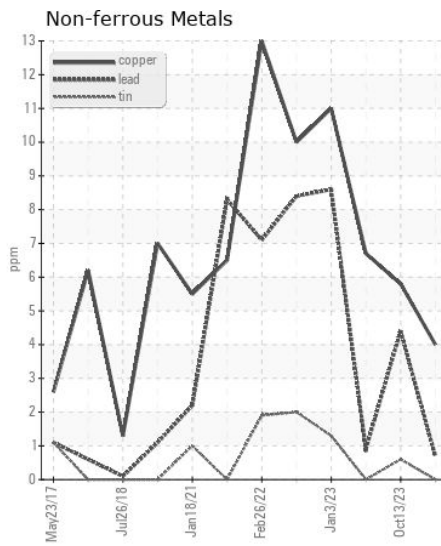
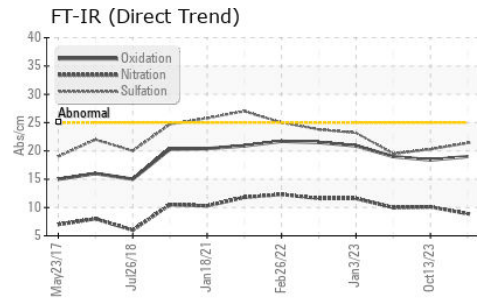
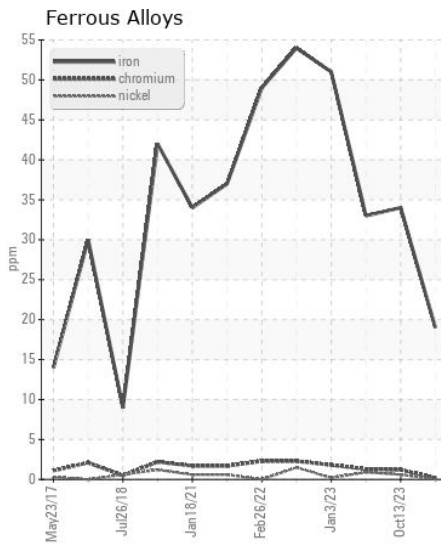
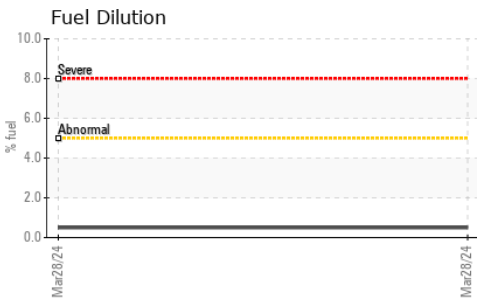
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	5	5
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Fuel	%	ASTM D3524	>5	0.5	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.1	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	20.3	19.5
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		6	2	3
Boron	ppm	ASTM D5185m		41	23	33
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	61	56
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		682	676	774
Calcium	ppm	ASTM D5185m		1393	1133	1278
Phosphorus	ppm	ASTM D5185m		866	702	759
Zinc	ppm	ASTM D5185m		1008	842	927
Sulfur	ppm	ASTM D5185m		3130	2521	2817
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	18.4	19.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.0	8.5	6.6	6.5
Visc @ 100°C	cSt	ASTM D445	15.2	12.3	12.7	13.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0811878 **Received** : 24 Apr 2024
Lab Number : 06159666 **Tested** : 29 Apr 2024
Unique Number : 10995089 **Diagnosed** : 29 Apr 2024 - Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

TALLEN TRANSPORT
 262 COUNTY ROAD 580
 MADISONVILLE, TN
 US 37303
 Contact: COBY JOHNSON
 tallenttransport@gmail.com

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)