



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 846-5070
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (18 QTS)

RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. 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		RPL0017577	RPL0015833	RPL0013419
Sample Date		Client Info		24 Jan 2024	28 Oct 2023	29 Jul 2023
Machine Age	mls	Client Info		22011	21270	12278
Oil Age	mls	Client Info		22011	21270	12278
Filter Age	mls	Client Info		22011	21270	12278
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ATTENTION

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>110	105	101	48
Chromium	ppm	ASTM D5185m	>4	2	2	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	16	14	6
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>85	88	85	81
Tin	ppm	ASTM D5185m	>4	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

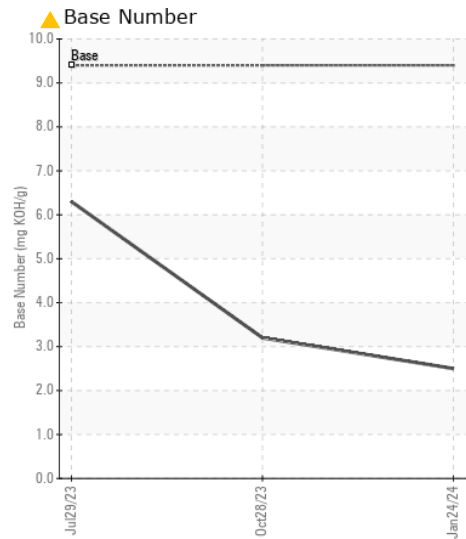
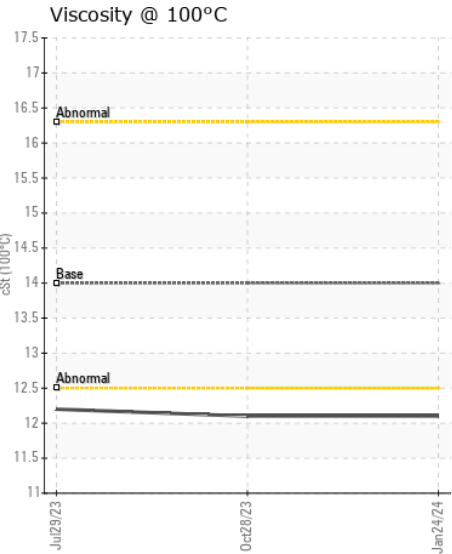
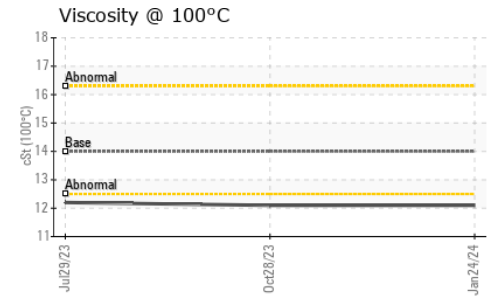
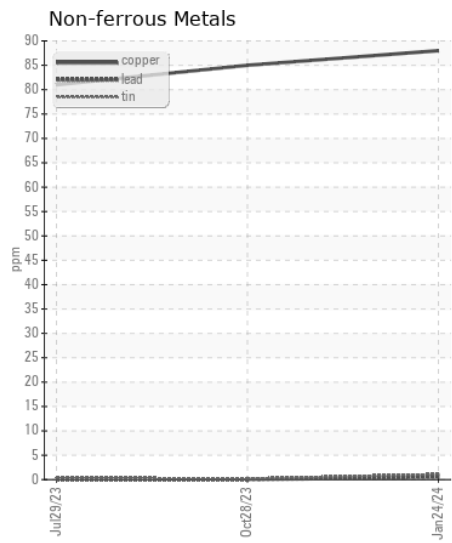
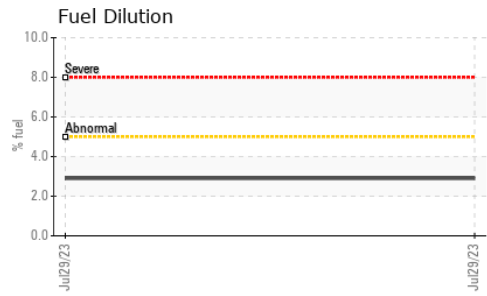
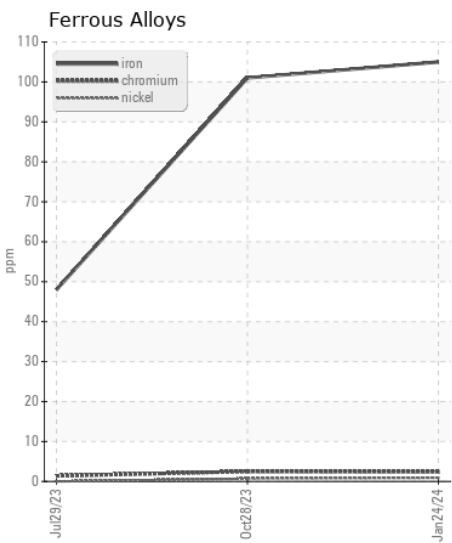
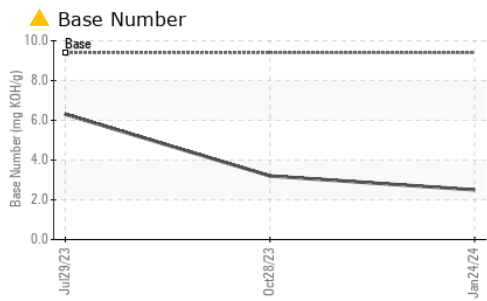
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	32	34	31
Potassium	ppm	ASTM D5185m	>20	21	19	12
Fuel	%	ASTM D3524	>5	<1.0	<1.0	▲ 2.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	16.1	13.7	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.0	32.5	25.5
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 level is low.

Sodium	ppm	ASTM D5185m		2	4	4
Boron	ppm	ASTM D5185m	0	64	72	182
Barium	ppm	ASTM D5185m	0	6	6	8
Molybdenum	ppm	ASTM D5185m	0	107	112	119
Manganese	ppm	ASTM D5185m		8	8	5
Magnesium	ppm	ASTM D5185m	0	634	653	652
Calcium	ppm	ASTM D5185m		1429	1382	1519
Phosphorus	ppm	ASTM D5185m		662	627	660
Zinc	ppm	ASTM D5185m		809	820	839
Sulfur	ppm	ASTM D5185m		2339	2451	2371
Oxidation	Abs/.1mm	*ASTM D7414	>25	40.1	40.1	25.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	▲ 2.5	▲ 3.2	6.3
Visc @ 100°C	cSt	ASTM D445	14	12.1	12.1	▲ 12.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0017577 **Received** : 08 Feb 2024
Lab Number : 06083351 **Tested** : 12 Feb 2024
Unique Number : 10870796 **Diagnosed** : 12 Feb 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)