



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ATTENTION

Machine Id
PETERBILT 846-4764

Component
Diesel Engine

Fluid
MOBIL DELVAC 1300 SUPER15W40 (24 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0017349	RPL0015500	RPL0013497
Sample Date		Client Info		29 Dec 2023	02 Oct 2023	06 Jul 2023
Machine Age	mls	Client Info		94374	88961	82984
Oil Age	mls	Client Info		5413	11946	19425
Filter Age	mls	Client Info		5413	11946	19425
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	7	23	19
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	5	17	21
Lead	ppm	ASTM D5185m	>45	<1	1	0
Copper	ppm	ASTM D5185m	>85	6	11	9
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

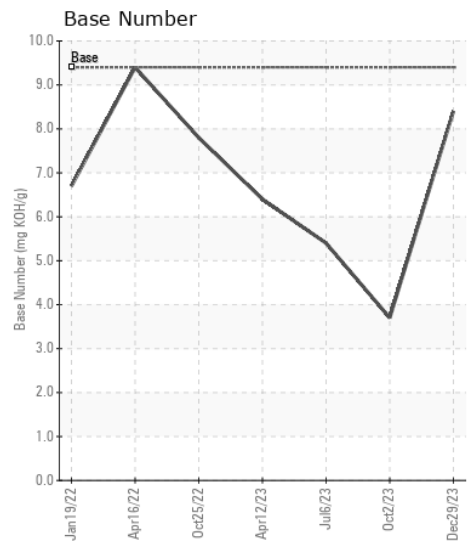
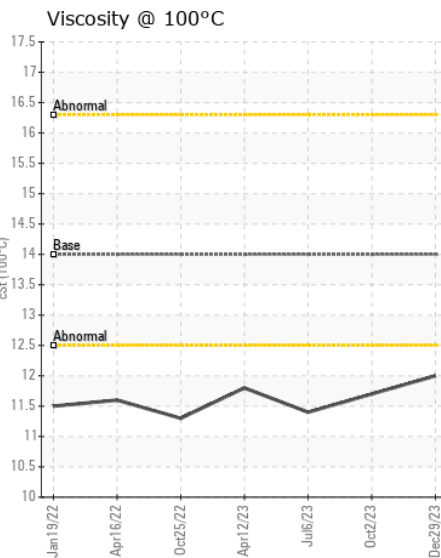
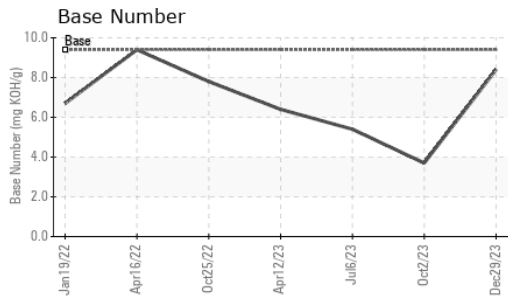
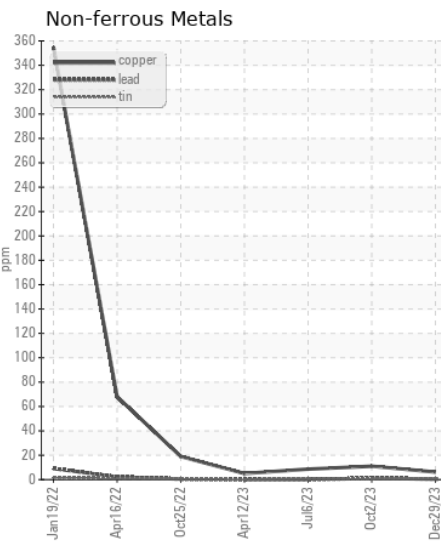
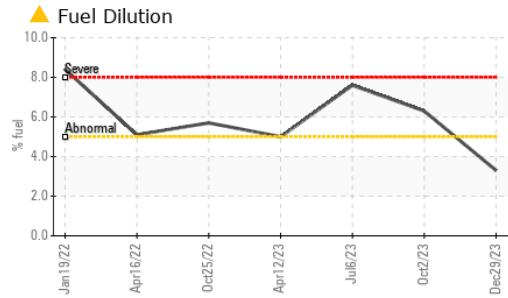
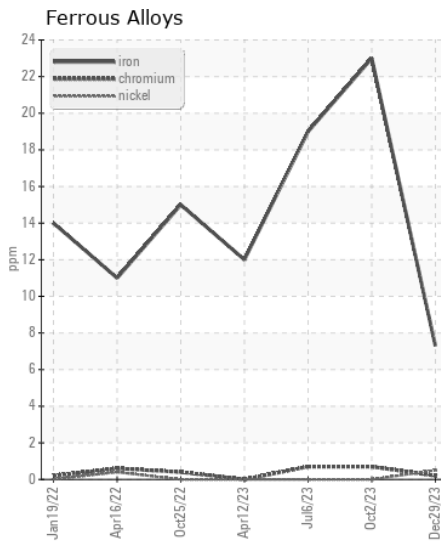
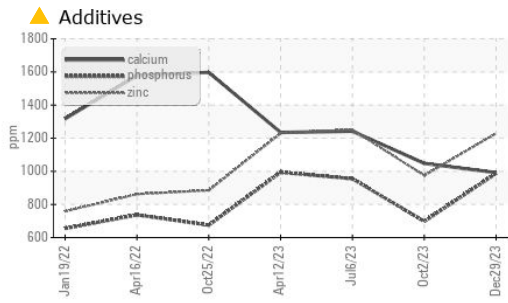
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>30	3	6	6
Potassium	ppm	ASTM D5185m	>20	4	33	44
Fuel	%	ASTM D3524	>5	▲ 3.3	▲ 6.3	▲ 7.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.1	11.9	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	26.6	23.6
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

Additive levels indicate the addition of a different brand, or type of oil. 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		0	2	1
Boron	ppm	ASTM D5185m	0	2	2	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	57	52	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	▲ 919	721	929
Calcium	ppm	ASTM D5185m		▲ 992	1048	1242
Phosphorus	ppm	ASTM D5185m		988	698	955
Zinc	ppm	ASTM D5185m		1229	975	1251
Sulfur	ppm	ASTM D5185m		3132	2294	3586
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	27.6	23.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	8.4	▲ 3.7	5.4
Visc @ 100°C	cSt	ASTM D445	14	12.0	▲ 11.7	▲ 11.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0017349 **Received** : 11 Jan 2024
Lab Number : 06057840 **Diagnosed** : 12 Jan 2024
Unique Number : 10829222 **Diagnostician** : Wes Davis
Test Package : FLEET (Additional Tests: 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)