



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
PETERBILT 8575113
Component
Diesel Engine
Fluid
MOBIL DELVAC MX 15W40 (46 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		RPL0019035	RPL0016402	RPL0013571
Sample Date		Client Info		11 Jun 2024	21 Dec 2023	01 Aug 2023
Machine Age	mls	Client Info		0	60350	31092
Oil Age	mls	Client Info		0	29258	31092
Filter Age	mls	Client Info		0	29258	31092
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	35	64
Chromium	ppm	ASTM D5185m	>20	0	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	9	18
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	5	17
Tin	ppm	ASTM D5185m	>15	0	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

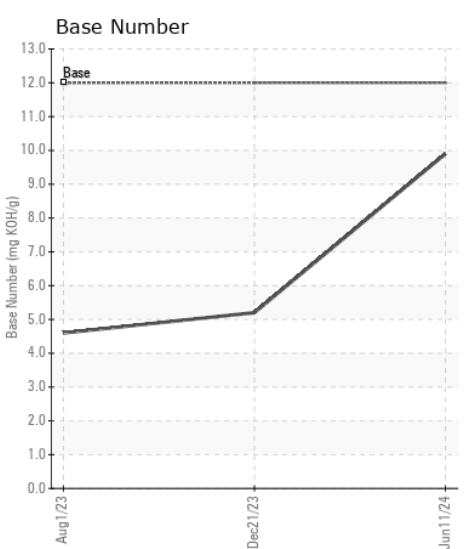
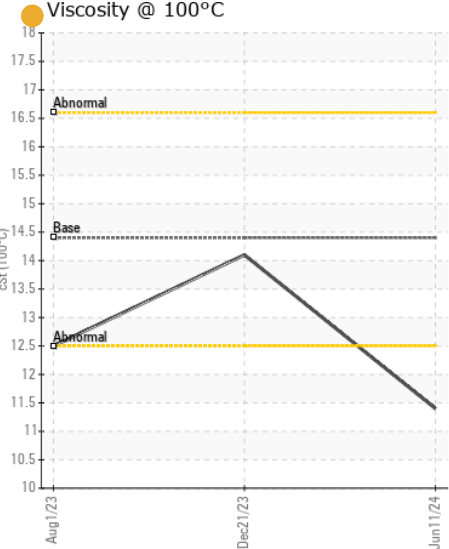
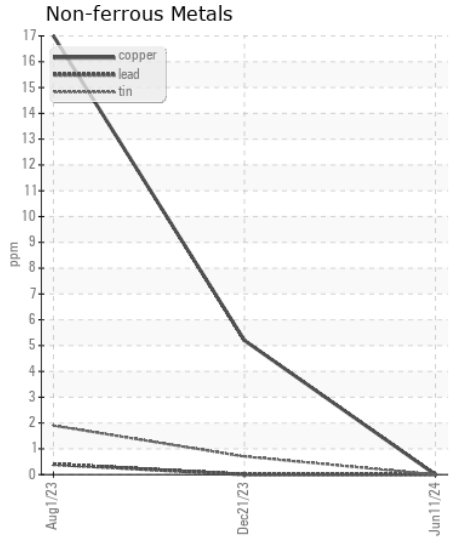
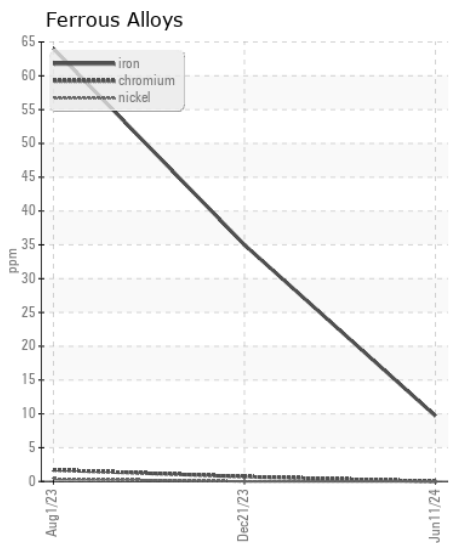
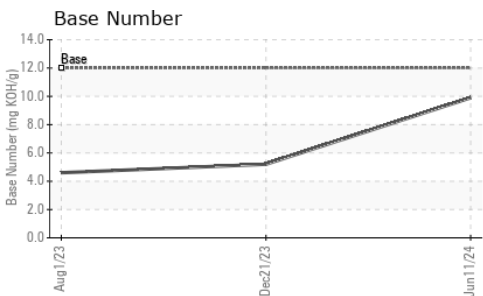
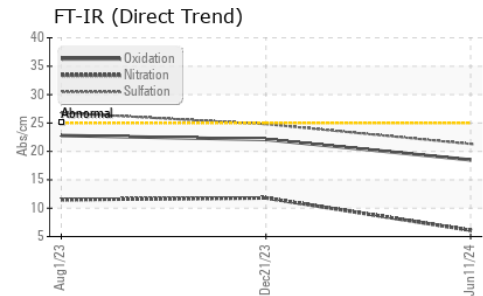
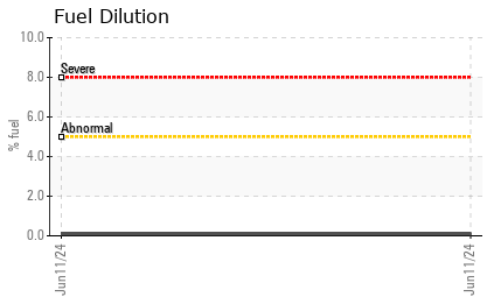
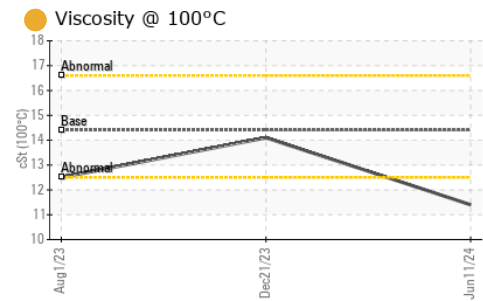
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	9	11	17
Potassium	ppm	ASTM D5185m	>20	2	21	51
Fuel	%	ASTM D3524	>5	0.1	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.1	11.8	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	24.8	26.8
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		1	<1	5
Boron	ppm	ASTM D5185m		58	20	23
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		46	62	8
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		549	957	692
Calcium	ppm	ASTM D5185m		1543	1191	1501
Phosphorus	ppm	ASTM D5185m		781	1084	781
Zinc	ppm	ASTM D5185m		939	1287	966
Sulfur	ppm	ASTM D5185m		2824	2864	3203
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	22.1	22.8
Base Number (BN)	mg KOH/g	ASTM D2896	12	9.9	5.2	4.6
Visc @ 100°C	cSt	ASTM D445	14.4	11.4	14.1	12.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019035 **Received** : 01 Jul 2024
Lab Number : 06225507 **Tested** : 08 Jul 2024
Unique Number : 11103704 **Diagnosed** : 08 Jul 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)