



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**

# OIL ANALYSIS REPORT

Area

[45123615]

Machine Id

**PETERBILT 9571454 Action Gypsum**

Component

**Diesel Engine**

Fluid

**MOBIL DELVAC MX 15W40 (40 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0016528</b>	RPL0013595	RPL0001559
Sample Date		Client Info		<b>27 Jun 2024</b>	01 Sep 2023	09 Mar 2022
Machine Age	mls	Client Info		<b>142342</b>	117566	60439
Oil Age	mls	Client Info		<b>8413</b>	6681	24294
Filter Age	mls	Client Info		<b>8413</b>	6681	24292
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>11</b>	16	23
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	11	13
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>330	<b>6</b>	4	4
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

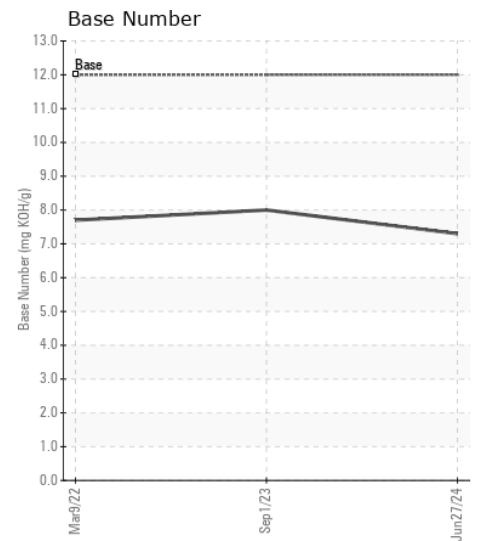
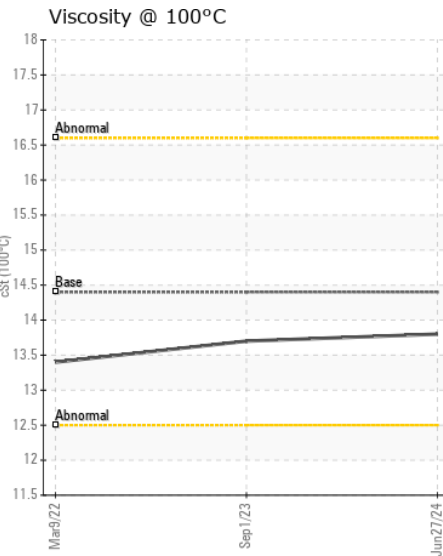
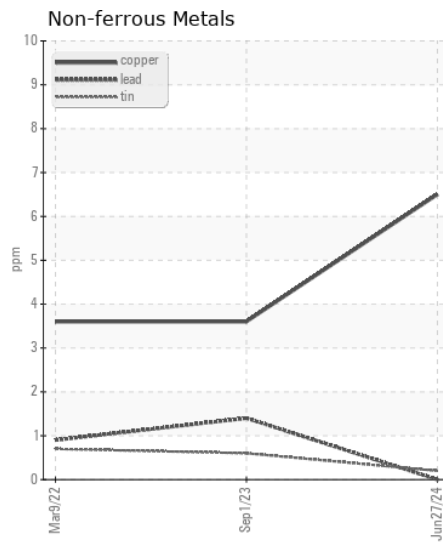
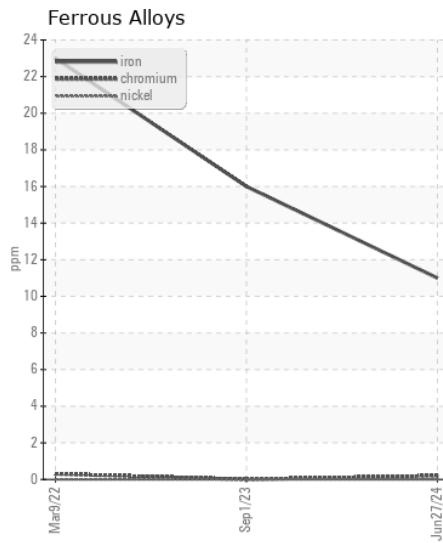
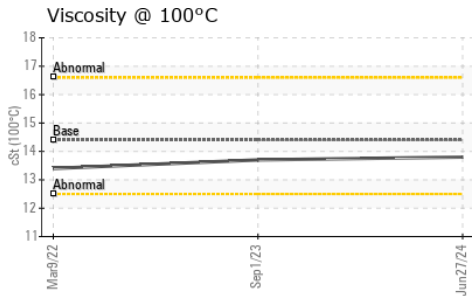
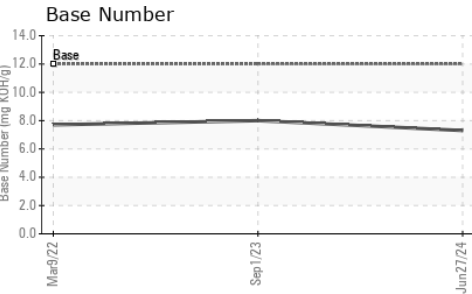
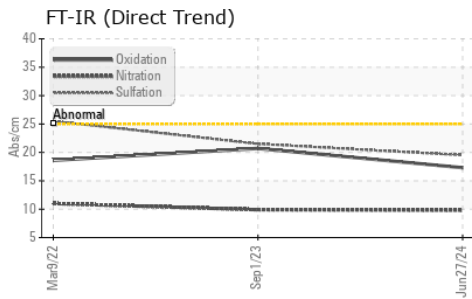
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	11	9
Potassium	ppm	ASTM D5185m	>20	<b>13</b>	22	63
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.8</b>	9.9	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.5</b>	21.5	25.5
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>4</b>	3	9
Boron	ppm	ASTM D5185m		<b>68</b>	27	55
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>101</b>	44	19
Manganese	ppm	ASTM D5185m		<b>2</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>629</b>	579	674
Calcium	ppm	ASTM D5185m		<b>1349</b>	1819	1409
Phosphorus	ppm	ASTM D5185m		<b>738</b>	801	781
Zinc	ppm	ASTM D5185m		<b>864</b>	997	889
Sulfur	ppm	ASTM D5185m		<b>3361</b>	3055	2697
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.3</b>	20.7	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	12	<b>7.3</b>	8.0	7.7
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.8</b>	13.7	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0016528 **Received** : 17 Jul 2024  
**Lab Number** : 06238798 **Tested** : 17 Jul 2024  
**Unique Number** : 11127632 **Diagnosed** : 17 Jul 2024 - Wes Davis  
**Test Package** : FLEET

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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)