



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**PETERBILT 200804**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0840275</b>	WC0592084	WC0592064
Sample Date		Client Info		<b>29 Nov 2023</b>	19 Jul 2022	13 Jul 2021
Machine Age	mls	Client Info		<b>126610</b>	120787	114860
Oil Age	mls	Client Info		<b>0</b>	2986	0
Filter Age	mls	Client Info		<b>0</b>	2986	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	ATTENTION	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>19</b>	14	52
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	4	6
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>85	<b>1</b>	<1	7
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	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.

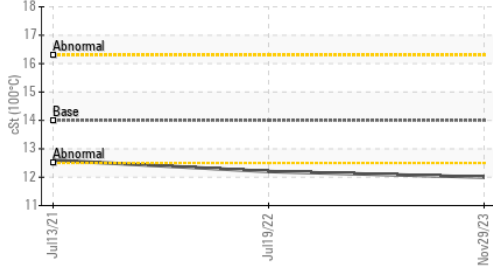
Silicon	ppm	ASTM D5185m	>30	<b>10</b>	8	26
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	1
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 3.8	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	7.5	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	22.4	20.4
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

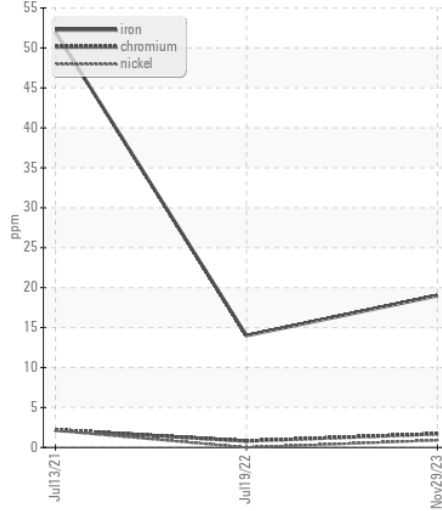
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	2
Boron	ppm	ASTM D5185m	0	<b>50</b>	58	10
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>51</b>	34	58
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>528</b>	529	830
Calcium	ppm	ASTM D5185m		<b>1529</b>	1454	1130
Phosphorus	ppm	ASTM D5185m		<b>819</b>	744	942
Zinc	ppm	ASTM D5185m		<b>899</b>	924	1103
Sulfur	ppm	ASTM D5185m		<b>2500</b>	2401	2618
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	18.8	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>8.7</b>	10.3	9
Visc @ 100°C	cSt	ASTM D445	14	▲ <b>12.0</b>	▲ 12.2	12.6

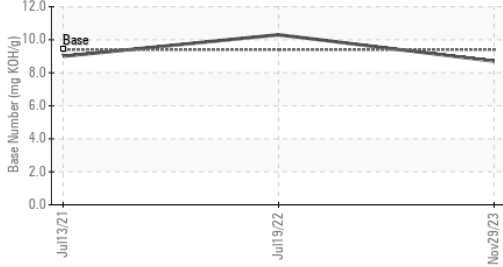
▲ Viscosity @ 100°C



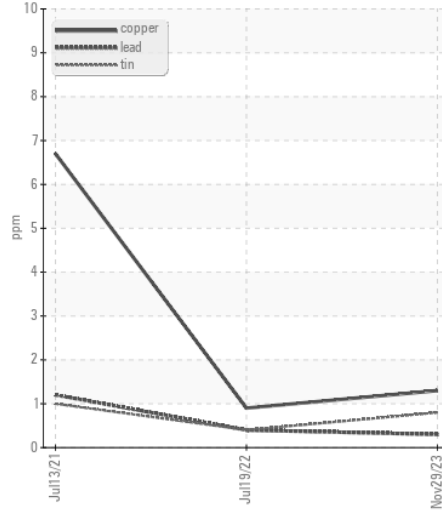
Ferrous Alloys



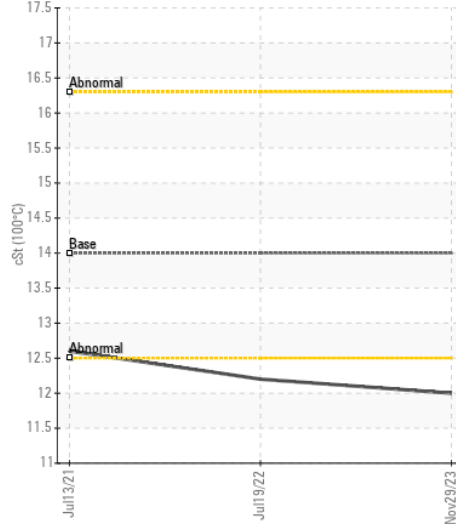
Base Number



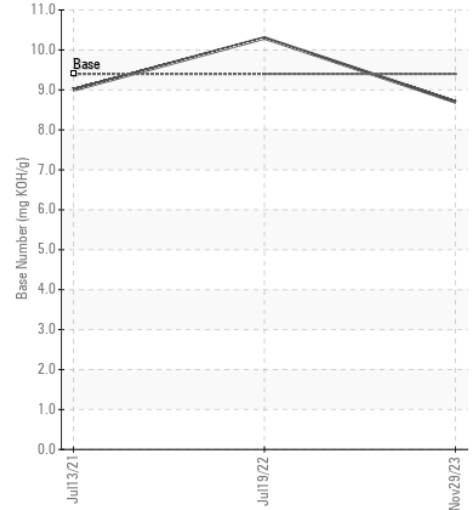
Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0840275 **Received** : 16 Jan 2024  
**Lab Number** : 06060560 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831942 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

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)

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