



OIL ANALYSIS REPORT

| | |
|-----------------|--------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
(2AP282)
Machine Id
PETERBILT 44 2019 Peterbilt
Component
Diesel Engine
Fluid
KENDALL 15W40 (42 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
Comment: 1,792 miles overdue. Current vehicle miles 428,491)

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | LP0001396 | LP0001244 | --- |
| Sample Date | | Client Info | | 10 Jan 2024 | 22 Nov 2023 | --- |
| Machine Age | mls | Client Info | | 428491 | 417111 | --- |
| Oil Age | mls | Client Info | | 11792 | 12000 | --- |
| Filter Age | mls | Client Info | | 11792 | 12000 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >110 | 13 | 13 | --- |
| Chromium | ppm | ASTM D5185m | >4 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 90 | 80 | --- |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 4 | --- |
| Lead | ppm | ASTM D5185m | >45 | <1 | 0 | --- |
| Copper | ppm | ASTM D5185m | >85 | <1 | <1 | --- |
| Tin | ppm | ASTM D5185m | >4 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 1 | 1 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

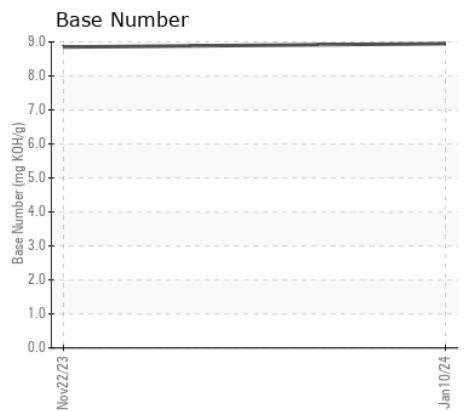
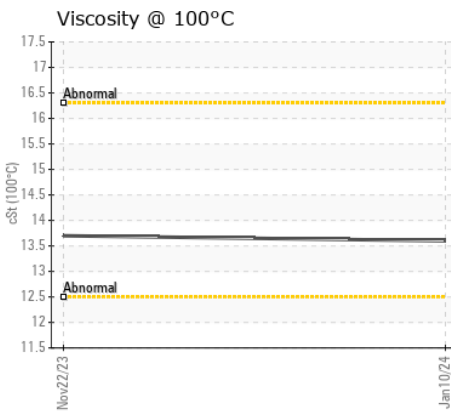
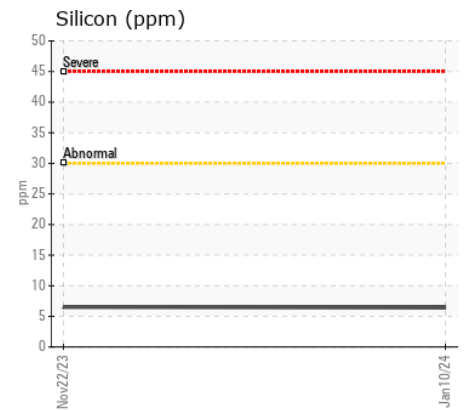
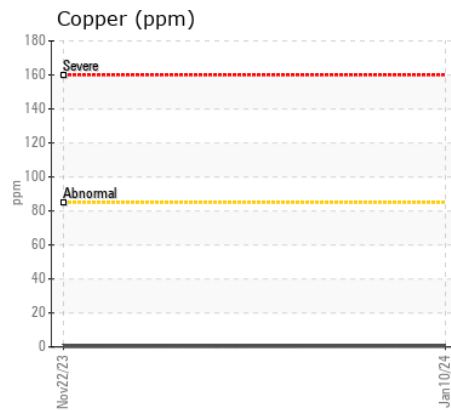
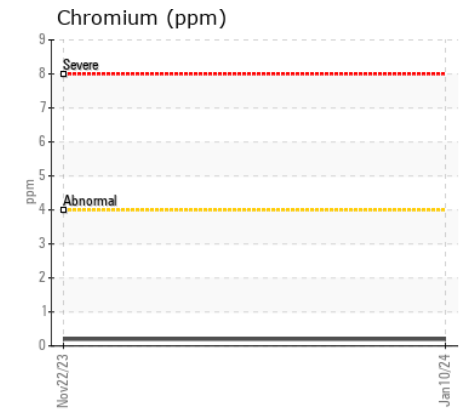
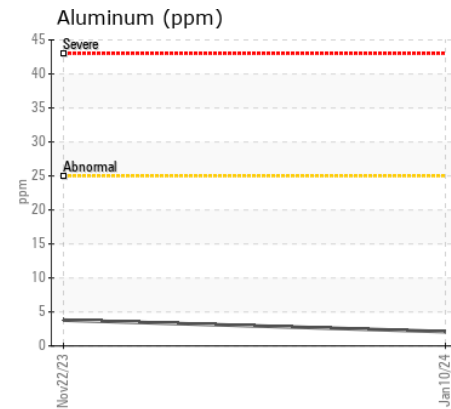
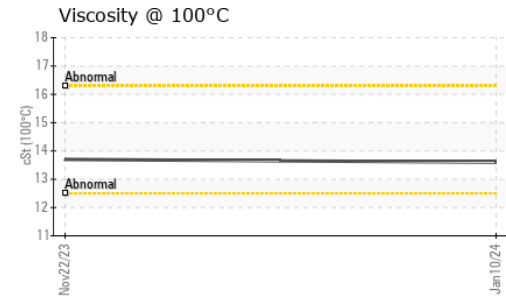
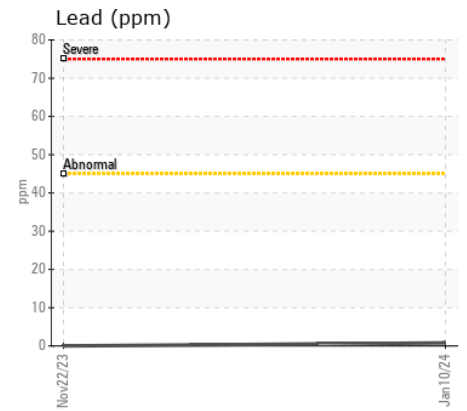
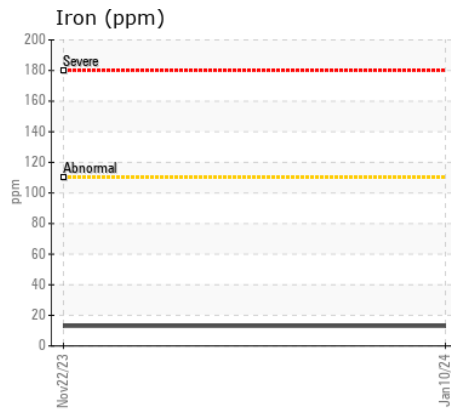
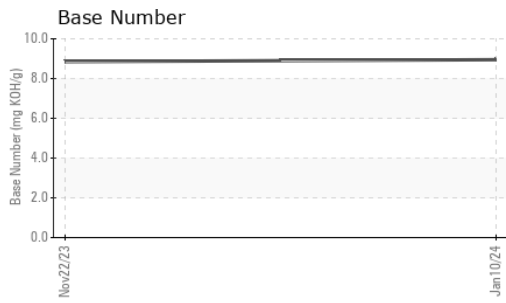
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >30 | 6 | 6 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 5 | 2 | --- |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.5 | 0.5 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.9 | 10.4 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.3 | 23.2 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|-------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 0 | 3 | --- |
| Boron | ppm | ASTM D5185m | 6.3 | 84 | 64 | --- |
| Barium | ppm | ASTM D5185m | 0.6 | 1 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0.4 | 8 | 8 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | 277 | 424 | 439 | --- |
| Calcium | ppm | ASTM D5185m | 1514 | 1644 | 1763 | --- |
| Phosphorus | ppm | ASTM D5185m | 634 | 1015 | 999 | --- |
| Zinc | ppm | ASTM D5185m | 743 | 1164 | 1235 | --- |
| Sulfur | ppm | ASTM D5185m | 2592 | 3867 | 3541 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.3 | 17.0 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.95 | 8.85 | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 13.6 | 13.7 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001396 **Received** : 18 Jan 2024
Lab Number : 06065108 **Diagnosed** : 22 Jan 2024
Unique Number : 10836490 **Diagnostician** : Sean Felton
Test Package : MOB 2

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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