

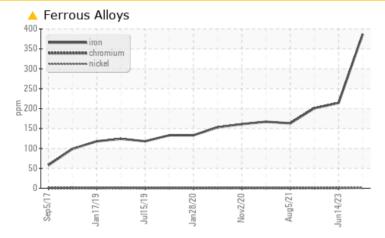
# **PROBLEM SUMMARY**

#### Area 2H28 Machine Id PETERBILT PB348 RTK9747 (S/N 2NP3LJ0XXHM417298) Component

Transmission (Auto)

# DIESEL ENGINE OIL SAE 15W40 (--- GAL)

# COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Sample Rating Trend                                     | WEAR |
|---|------|
|   |      |
|   |      |
|   |      |
|   |      |
|   |      |
|   |      |
|   |      |
|   |      |
|   |      |
| sep2017 Jan2019 Jul2019 Jan2020 Nov2020 Aug2021 Jun2023 |      |

| PROBLEMATIC TEST RESULTS |     |             |      |          |          |          |  |  |
|--------------------------|-----|-------------|------|----------|----------|----------|--|--|
| Sample Status            |     |             |      | ABNORMAL | ABNORMAL | ABNORMAL |  |  |
| Iron                     | ppm | ASTM D5185m | >325 | <u> </u> | 214      | 201      |  |  |
|                          |     |             |      |          |          |          |  |  |

Customer Id: AR5208CHE Sample No.: AR10004573 Lab Number: 05966745 Test Package: MOBCE



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

| RECOMMENDED ACTIONS |        |      |         |   |  |
|---------------------|--------|------|---------|---|--|
| Action              | Status | Date | Done By | Description   |  |
| Change Fluid        |        |      | ?       | Oil and filter change at the time of sampling has been noted. |  |
| Change Filter       |        |      | ?       | Oil and filter change at the time of sampling has been noted. |  |

HISTORICAL DIAGNOSIS



14 Jun 2023 Diag: Don Baldridge

We recommend you service the filters on this component. Resample at the next service interval to monitor.Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

#### 13 Mar 2023 Diag: Don Baldridge



We recommend you service the filters on this component. Resample at the next service interval to monitor.Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

05 Aug 2021 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



view report







# **OIL ANALYSIS REPORT**

### Area 2H28 Machine Id PETERBILT PB348 RTK9747 (S/N 2NP3LJ0XXHM417298)

Component Transmission (Auto)

Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## 🔺 Wear

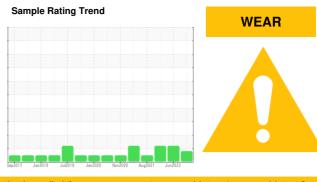
The iron level is abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

Confirm oil type. The condition of the fluid is acceptable for the time in service.

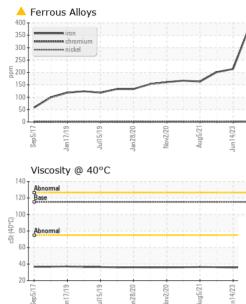


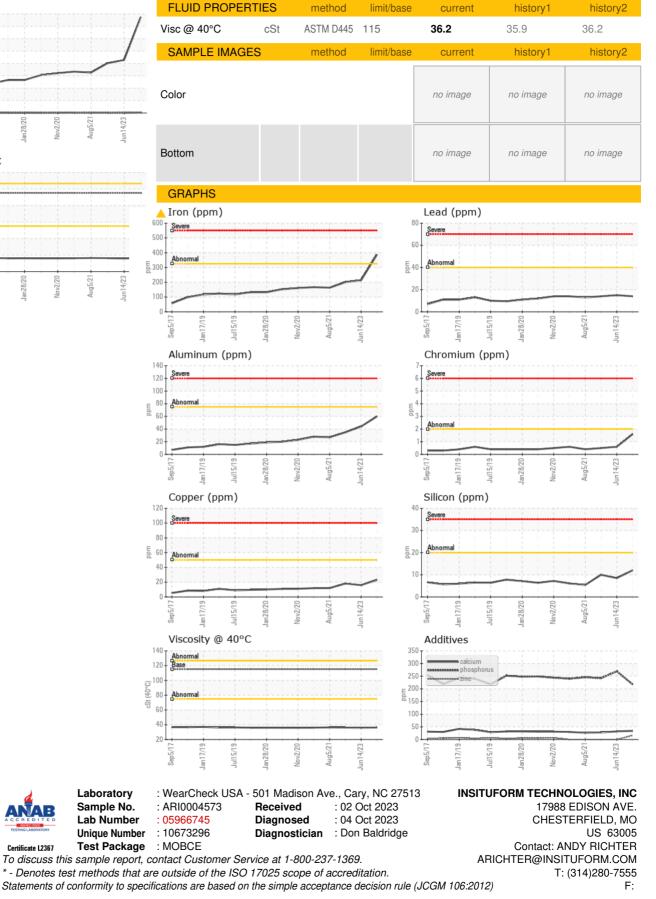
| SAMPLE INFORM      | <b>MATION</b> | method      | limit/base | current      | history1    | history2    |
|--------------------|---------------|-------------|------------|--------------|-------------|-------------|
| Sample Number      |               | Client Info |            | ARI0004573   | ARI0004530  | ARI0004587  |
| Sample Date        |               | Client Info |            | 27 Sep 2023  | 14 Jun 2023 | 13 Mar 2023 |
| Machine Age        | mls           | Client Info |            | 151039       | 145489      | 140262      |
| Oil Age            | mls           | Client Info |            | 0            | 0           | 0           |
| Oil Changed        |               | Client Info |            | Changed      | N/A         | Not Changd  |
| Sample Status      |               |             |            | ABNORMAL     | ABNORMAL    | ABNORMAL    |
| WEAR METALS        |               | method      | limit/base | current      | history1    | history2    |
| Iron               | ppm           | ASTM D5185m | >325       | <b>A</b> 387 | 214         | 201         |
| Chromium           | ppm           | ASTM D5185m | >2         | 2            | <1          | <1          |
| Nickel             | ppm           | ASTM D5185m | >2         | 2            | <1          | 2           |
| Titanium           | ppm           | ASTM D5185m | >3         | <1           | 0           | <1          |
| Silver             | ppm           | ASTM D5185m | >5         | 0            | 0           | 0           |
| Aluminum           | ppm           | ASTM D5185m | >75        | 60           | 44          | 35          |
| Lead               | ppm           | ASTM D5185m | >40        | 14           | 15          | 14          |
| Copper             | ppm           | ASTM D5185m |            | 23           | 16          | 18          |
| Tin                | ppm           |             | >10        | 4            | 3           | 3           |
| Antimony           | ppm           | ASTM D5185m |            |              |             |             |
| Vanadium           | ppm           | ASTM D5185m |            | 0            | 0           | 0           |
| Cadmium            | ppm           | ASTM D5185m |            | 0            | 0           | 0           |
| ADDITIVES          | 1-1-          | method      | limit/base |              | history1    | history2    |
| Boron              | ppm           | ASTM D5185m | 250        | 41           | 80          | 82          |
| Barium             | ppm           | ASTM D5185m | 10         | 0            | 0           | 0           |
| Molybdenum         | ppm           | ASTM D5185m | 100        | 0            | <1          | 1           |
| Manganese          | ppm           | ASTM D5185m | 100        | 6            | 4           | 4           |
| Magnesium          | ppm           | ASTM D5185m | 450        | 6            | <1          | 1           |
| Calcium            |               | ASTM D5185m |            | 34           | 32          | 28          |
|                    | ppm           | ASTM D5185m | 1150       | 218          | 269         | 242         |
| Phosphorus<br>Zinc | ppm           | ASTM D5185m | 1350       | 16           | 0           | 0           |
| Sulfur             | ppm<br>ppm    | ASTM D5185m | 4250       | 243          | 421         | 44          |
|                    |               |             |            |              |             |             |
| CONTAMINANTS       |               | method      | limit/base |              | history1    | history2    |
| Silicon            | ppm           | ASTM D5185m | >20        | 12           | 8           | 10          |
| Sodium             | ppm           | ASTM D5185m |            | 12           | 10          | 10          |
| Potassium          | ppm           | ASTM D5185m | >20        | 4            | 5           | 5           |
| VISUAL             |               | method      | limit/base | current      | history1    | history2    |
| White Metal        | scalar        | *Visual     | NONE       | NONE         | A MODER     | A MODER     |
| Yellow Metal       | scalar        | *Visual     | NONE       | NONE         | NONE        | NONE        |
| Precipitate        | scalar        | *Visual     | NONE       | NONE         | NONE        | NONE        |
| 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     | >0.1       | NEG          | NEG         | NEG         |
| Free Water         | scalar        | *Visual     |            | NEG          | NEG         | NEG         |
|                    |               |             |            |              |             |             |



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# **OIL ANALYSIS REPORT**





Certificate L2367

Contact/Location: ANDY RICHTER - AR5208CHE