## **OIL ANALYSIS REPORT**

#### VA PILOTS DAREN G/15721 VOLVO PENTA 1013926395 - STARBOARD DIESEL ENGINE

Sample No: VPA046089

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

| Sample Number        |          | VPA046089     | <br> |      |
|----------------------|----------|---------------|------|------|
| Sample Date          |          | 10 Aug 2023   | <br> |      |
| Machine Hours        |          | 6037          | <br> |      |
| Dil Hours            |          | 0             | <br> |      |
| Oil Changed          |          | Not Changd    | <br> |      |
| Sample Status        |          | ABNORMAL      | <br> |      |
| OIL CONDITION        |          |               |      |      |
| Visc @ 100°C         | cSt      | <b>▲</b> 11.8 | <br> |      |
| Base Number (BN)     | mg KOH/g | 8.5           | <br> |      |
| Oxidation (PA)       | %        | 84            | <br> |      |
|                      | 70       | 04            | <br> | <br> |
| CONTAMINATION        |          |               |      |      |
| Soot %               | %        | 0.3           | <br> |      |
| Nitration (PA)       | %        | 70            | <br> |      |
| Sulfation (PA)       | %        | 66            | <br> |      |
| Glycol               | %        | NEG           | <br> |      |
| Fuel                 | %        | <b>4.2</b>    | <br> |      |
| Silicon              | ppm      | 6             | <br> |      |
| Sodium               | ppm      | 3             | <br> |      |
| Potassium            | ppm      | 2             | <br> |      |
| WEAR METALS          | ppm      | <b>1</b> 7    | <br> |      |
| Copper               | ppm      | <b>  </b> <1  | <br> |      |
| _ead                 | ppm      | 2             | <br> |      |
| Гin                  | ppm      | ∎1            | <br> |      |
| Aluminum             | ppm      | 2             | <br> |      |
| Chromium             | ppm      | <b>  </b> <1  | <br> |      |
| Molybdenum           | ppm      |               | <br> |      |
| Nickel               | ppm      | _<br><1       | <br> |      |
| Titanium             | ppm      | 0             | <br> |      |
| Silver               | ppm      | 0             | <br> |      |
| Vanganese            | ppm      | <b></b> <1    | <br> |      |
| Vanadium             | ppm      | 0             | <br> |      |
| ADDITIVES            |          |               |      |      |
| Calcium              | ppm      | <b>1699</b>   | <br> |      |
| Vagnesium            | ppm      | 525           | <br> |      |
| Zinc                 | ppm      | 922           | <br> |      |
|                      | ppm      | 746           | <br> |      |
| Phosphorus           |          | 140           | <br> |      |
| Phosphorus<br>Barium | ppm      | 0             | <br> |      |



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se that you check the fuel system. Resample at the vice interval to monitor.All ent wear rates are normal. a moderate amount of fuel n the oil. Fuel is present in nd is lowering the viscosity. esult indicates that there is alkalinity remaining in the oil.

VP141534 10601860 o: Signed: Jonathan Hester Report Date: 14 Aug 2023

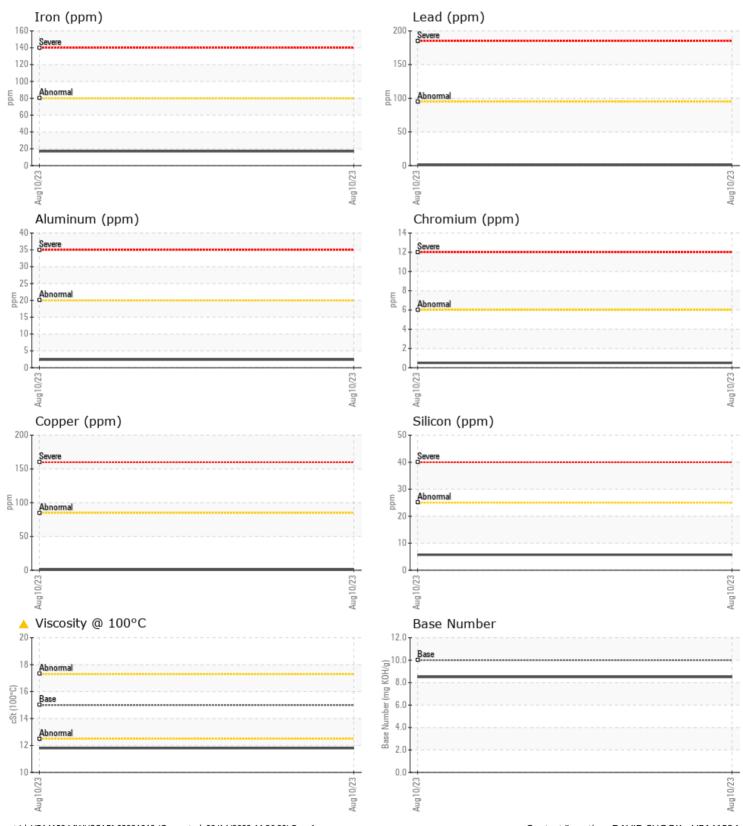
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#### GRAPHS



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