



## CHRIS ROSINSKI COLIN 6416 VOLVO PENTA D4-300I-F A371200 - CENTER DIESEL ENGINE

Sample No: VPA060563

**Oil Type:** VOLVO PENTA SAE 15W40

| SAMPLE INFORMAT  | ION      |                  |      |  |
|------------------|----------|------------------|------|--|
| Sample Number    |          | VPA060563        | <br> |  |
| Sample Date      |          | 01 Nov 2023      | <br> |  |
| Machine Hours    |          | 1576             | <br> |  |
| Oil Hours        |          | 144              | <br> |  |
| Oil Changed      |          | Changed          | <br> |  |
| Sample Status    |          | NORMAL           | <br> |  |
| OIL CONDITION    |          |                  |      |  |
| Visc @ 100°C     | cSt      | <b>14.3</b>      | <br> |  |
| Base Number (BN) | mg KOH/g | _<br><b></b> 9.1 | <br> |  |
| Oxidation (PA)   | %        | 60               | <br> |  |
|                  |          |                  |      |  |
| CONTAMINATION    |          |                  |      |  |
| Soot %           | %        | <b>1.9</b>       | <br> |  |
| Nitration (PA)   | %        | 72               | <br> |  |
| Sulfation (PA)   | %        | 61               | <br> |  |
| Glycol           | %        | NEG              | <br> |  |
| Fuel             | %        | <1.0             | <br> |  |
| Silicon          | ppm      | <b>6</b>         | <br> |  |
| Sodium           | ppm      | <b>1</b>         | <br> |  |
| Potassium        | ppm      | <b>1</b>         | <br> |  |
| WEAR METALS      |          |                  |      |  |
| Iron             | ppm      | <b>■33</b>       | <br> |  |
| Copper           | ppm      | <b>■</b> 9       | <br> |  |
| Lead             | ppm      | <b>2</b>         | <br> |  |
| Tin              | ppm      | <b>1</b>         | <br> |  |
| Aluminum         | ppm      | <b>3</b>         | <br> |  |
| Chromium         | ppm      | <b>1</b>         | <br> |  |
| Molybdenum       | ppm      | <b>56</b>        | <br> |  |
| Nickel           | ppm      | <b>■</b> 3       | <br> |  |
| Titanium         | ppm      | <b>0</b>         | <br> |  |
| Silver           | ppm      | <b>0</b>         | <br> |  |
| Manganese        | ppm      | <b></b>          | <br> |  |
| Vanadium         | ppm      | 0                | <br> |  |
| ADDITIDES        |          |                  |      |  |
| Calcium          | ppm      | ■1374            | <br> |  |
| Magnesium        | ppm      | ■865             | <br> |  |
| Zinc             | ppm      | <b>1407</b>      | <br> |  |
| Phosphorus       | ppm      | ■1103            | <br> |  |
| Barium           | ppm      | ■0               | <br> |  |
| Boron            | ppm      | <b>22</b>        | <br> |  |
|                  | I- P     |                  |      |  |

## **Northwest Diesel Power**

1325 ROEDER AVE SUITE 103 BELLINGHAM, WA US 98225 Contact: BRANDON ROBERTSON parts@nwdieselpower.com

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## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot:VP759009Unique No:10727898Signed:Don BaldridgeReport Date:08 Nov 2023

## **OIL ANALYSIS REPORT**



