## **OIL ANALYSIS REPORT**

## MARK GUILMAIN TAP551928 ZF 20380816 - INBOARD - STARBOARD GEARBOX

Sample No: VPA045617

Oil Type: **DIESEL ENGINE OIL SAE 30** 

| SAMPLE INFORM | ATION |              |             |  |  |   |
|---------------|-------|--------------|-------------|--|--|---|
| Sample Number |       | VPA045617    | VPA037353   |  |  |   |
| Sample Date   |       | 09 Apr 2024  | 04 Apr 2022 |  |  | FDDA TAMPA                                  |
| Machine Hours |       | 520          | 163         |  |  |   |
| Oil Hours     |       | 520          | 163         |  |  | TAMPA, FL                                   |
| Oil Changed   |       | Changed      | Changed     |  |  | US  |
| Sample Status |       | ABNORMAL     | NORMAL      |  |  | Contact: KYLE SUT                           |
| OIL CONDITION |       |              |             |  |  | k.sutley@ssss.com<br>T: (813)918-8518<br>F: |
| Visc @ 40°C   | cSt   | 76.3         | 83.9        |  |  | г.  |
| CONTAMINATION |       |              |             |  |  | Diagnosis                                   |
| Water         | %     | NEG          | NEG         |  |  | Oil and filter char<br>sampling has bee     |
| Silicon       | ppm   | <b>15</b>    | 15          |  |  | corrective action is                        |
| Sodium        | ppm   | <b>  </b> <1 | 4           |  |  | this time. Resampl                          |
| Potassium     | ppm   | ∎1           | 0           |  |  | service interval to                         |
| WEAR METALS   |       |              |             |  |  |   |
| Iron          | ppm   | <b>1</b> 6   | 12          |  |  | condition of the o<br>the time in service   |
| Copper        | ppm   | 45           | 83          |  |  |   |
| Lead          | ppm   | <1           | 3           |  |  |   |
| Tin           | ppm   | 8            | 2           |  |  |   |
| Aluminum      | ppm   | <b>4</b>     | 2           |  |  |   |
| Chromium      | ppm   | ∎1           | <1          |  |  |   |
| Molybdenum    | ppm   | 53           | <b></b> <1  |  |  |   |
| Nickel        | ppm   | 2            | <1          |  |  |   |
| Titanium      | ppm   | <b></b> <1   | <1          |  |  |   |
| Silver        | ppm   | <1           | < 1         |  |  |   |
| Manganese     | ppm   | 2            | <b></b> <1  |  |  |   |
| Vanadium      | ppm   | 1            | 0           |  |  |   |
| ADDITIVES     |       |              |             |  |  |   |
| Calcium       | ppm   | 940          | 2983        |  |  |   |
| Magnesium     | ppm   | 760          | 13          |  |  |   |
| Zinc          | ppm   | 658          | 1131        |  |  |   |
| Phosphorus    | ppm   | 630          | 1083        |  |  |   |
| Barium        | ppm   | 4            | 0           |  |  |   |
| Boron         | ppm   | 212          | 12          |  |  |   |

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ge at the time of noted. No recommended at le at the next monitor.All rates are normal. tration of visible in the oil. The il is acceptable for

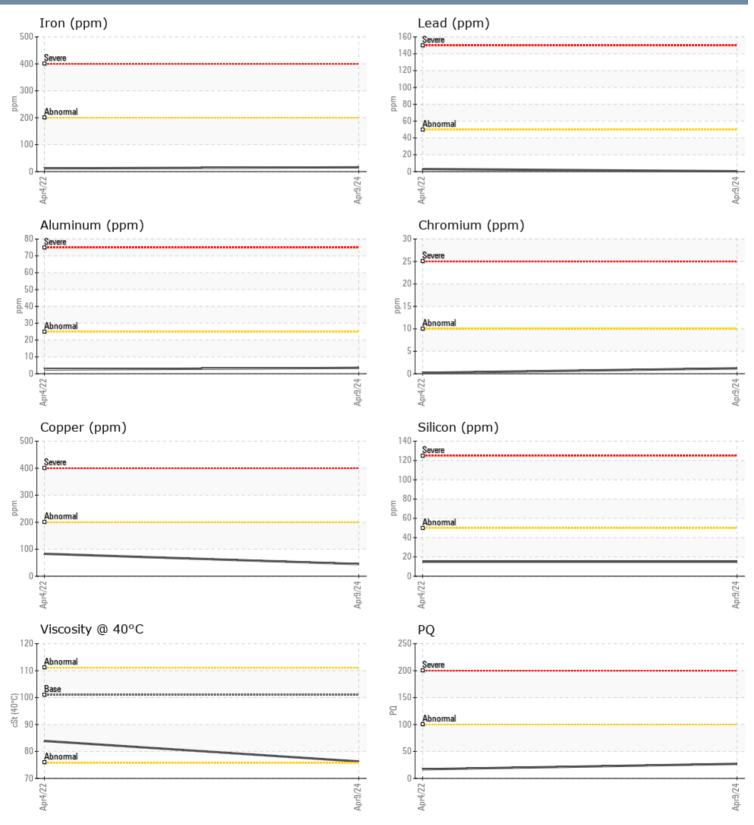
Depot: VP208641 Unique No: 10980771 Signed: Sean Felton Report Date: 18 Apr 2024 Contact/Location: KYLE SUTLEY - VP208641



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## GRAPHS



Contact/Location: KYLE SUTLEY - VP208641