OIL ANALYSIS REPORT

EMERALD PACIFIC YACHTS PATRICK/502575-5750 VOLVO PENTA 7011350068 - DIESEL ENGINE

Sample No: VPA059050

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

| ample Number | | VPA059050 | | | |
|---|------------|-------------------|---|------|--|
| ample Date | | 27 Nov 2023 | | | |
| Aachine Hours | | 265 | | | |
| Dil Hours | | 126 | | | |
| Dil Changed | | Changed | | | |
| ample Status | | NORMAL | | | |
| | | | | | |
| OIL CONDITION | | | | | |
| ′isc @ 100°C | cSt | ∎13.1 | | | |
| ase Number (BN) | mg KOH/g | 7.8 | | | |
| Dxidation (PA) | % | 53 | | | |
| | | | | | |
| CONTAMINATION | | | | | |
| /ater | % | NEG | | | |
| vater Soot % | % | NEG | | | |
| litration (PA) | | 65 | | | |
| () | % | 50 | | | |
| ulfation (PA) | % | NEG | | | |
| lycol | % | <1.0 | | | |
| uel ilicon | | <1.0 | | | |
| odium | ppm | 0 | | | |
| otassium | ppm | 4 | | | |
| | ppm | • • | - | | |
| WEAR METALS | | | | | |
| on | ppm | 5 | | | |
| opper | ppm | 38 | | | |
| ad | ppm | 0 | | | |
| n | ppm | <1 | | | |
| luminum | ppm | 2 | | | |
| nromium | ppm | 0 | | | |
| lolybdenum | ppm | 9 | | | |
| ickel | ppm | ■ <1 | | | |
| tanium | ppm | <1 | | | |
| lver | ppm | 0 | | | |
| langanese | ppm | 0 | | | |
| anadium | ppm | 0 | | | |
| ADDITIVES | | | | | |
| | ppm | 1223 | | | |
| | | | | | |
| alcium | | 666 | | | |
| alcium 1agnesium | ppm | 666 799 | | | |
| alcium 1agnesium inc hosphorus | | | | | |
| alcium Iagnesium inc | ppm ppm | 799 | | | |

Signed: Jonathan Hester Report Date: 04 Dec 2023

VP794951

10766840

Marine LLC - Coastal Marine - 152124 11th Ave. NW TLE, WA 8107 ct: WILLOW YANARELLA e@coastalmarineengine.com 6)784-3703 6)784-8823

gnosis

mple at the next service interval onitor.All component wear rates normal. There is no indication of contamination in the oil. The BN It indicates that there is suitable inity remaining in the oil. The lition of the oil is suitable for er service.

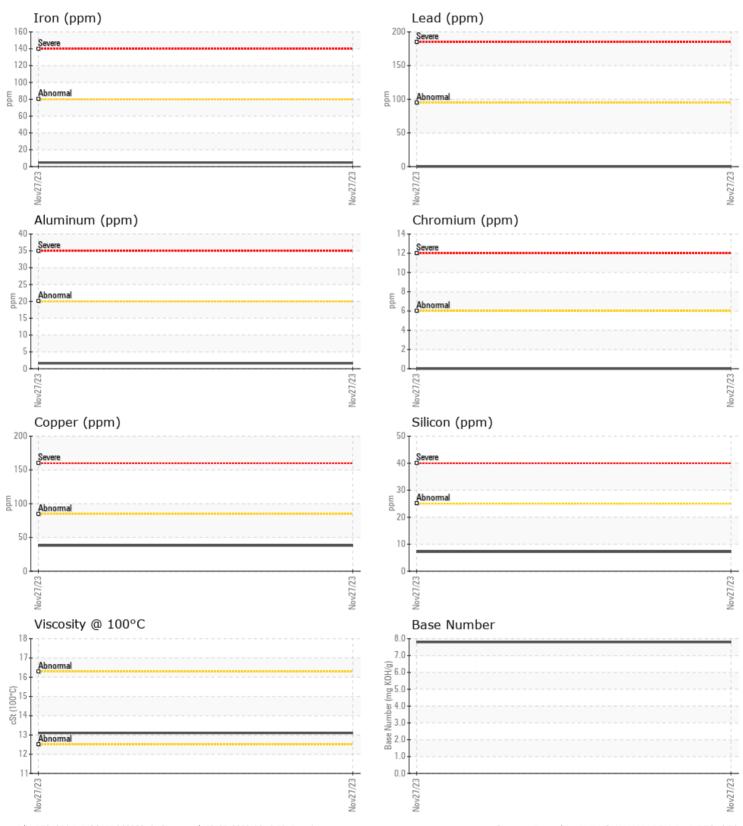
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OIL ANALYSIS REPORT



GRAPHS



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