OIL ANALYSIS REPORT

SLEEPING BEAR YANMAR M60579 - STARBOARD DIESEL ENGINE

Sample No: VPA039172

Oil Type: DIESEL ENGINE OIL SAE 30

SAMPLE INFORMATION

| Sample Number | | VPA039172 | | |
|---|------------------|------------------------------|----------------------|--------------|
| Sample Date | | 10 May 2024 | | |
| Machine Hours | | 1142 | | |
| Oil Hours | | 0 | | |
| Oil Changed | | N/A | | |
| Sample Status | | NORMAL | | |
| OIL CONDITION | | | | |
| Visc @ 100°C | cSt | 12.4 | | |
| Oxidation (PA) | % | 63 | | |
| | | | | |
| CONTAMINATION | | | | |
| CONTAMINATION Water | % | NEG | | |
| | % | NEG | | |
| Water | | | | |
| Water Soot % | % | 0 | | |
| Water Soot % Nitration (PA) | % % | 0 48 | | |
| Water Soot % Nitration (PA) Sulfation (PA) | % % | ■0 48 55 | | |
| Water Soot % Nitration (PA) Sulfation (PA) Glycol | % % % | 0 48 55 0.0 | | |
| Water Soot % Nitration (PA) Sulfation (PA) Glycol Fuel | % % % % | 0 48 55 0.0 <1.0 | | |

WEAR METALS

| Iron | ppm | 4 | | |
|------------|-----|-----------|------|--|
| Copper | ppm | 47 | | |
| Lead | ppm | 1 | | |
| Tin | ppm | 0 | | |
| Aluminum | ppm | □<1 | | |
| Chromium | ppm | 0 | | |
| Molybdenum | ppm | 2 | | |
| Nickel | ppm | 0 | | |
| Titanium | ppm | 0 | | |
| Silver | ppm | 0 | | |
| Manganese | ppm | 0 | | |
| Vanadium | ppm | 0 | | |

ADDITIVES

| Calcium | ppm | 1963 | | |
|------------|-----|-------------|------|--|
| Magnesium | ppm | 39 | | |
| Zinc | ppm | 1023 | | |
| Phosphorus | ppm | 904 | | |
| Barium | ppm | 0 | | |
| Boron | ppm | 165 | | |

Pratt Diesel Ltd.

2384 Craig's Side Road CARP, ON CA K0A 1L0 Contact: M Boyd melular1@gmail.com T: (613)536-9501 F: (613)549-1608

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP662525

 Unique No:
 5776661

 Signed:
 Kevin Marson

 Report Date:
 15 May 2024

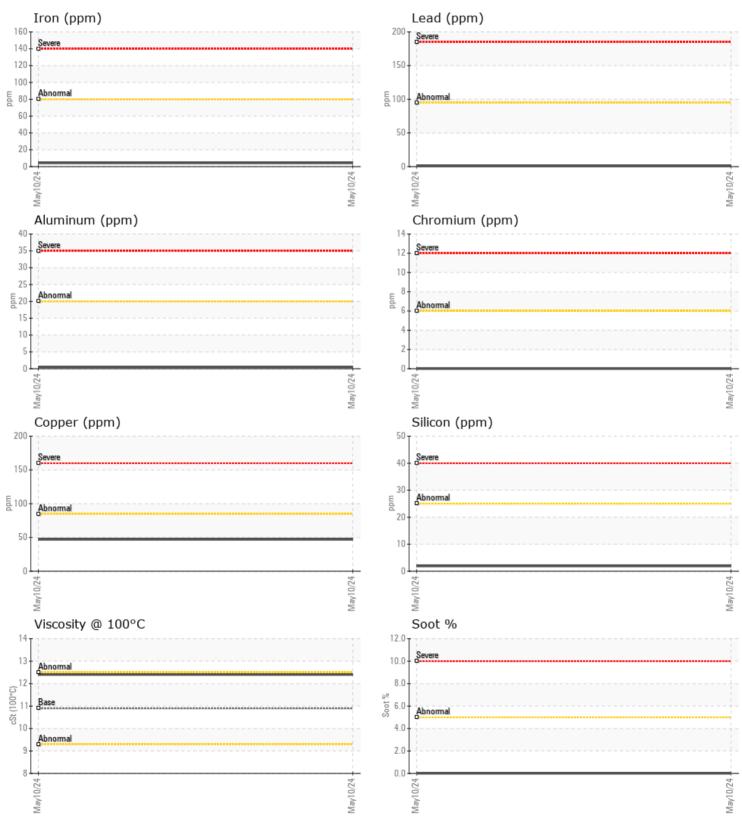
 Contact/Location:
 M Boyd - VP662525



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP662525 [WCAMIS] 02635508 (Generated: 05/16/2024 10:43:10) Rev: 1

Contact/Location: M Boyd - VP662525