OIL ANALYSIS REPORT

CHANCE ROBERTS 80683 A1226256 - STARBOARD MAIN ENGINE

Sample No: VPA042781 Oil Type: {unknown}

SAMPLE INFORMATION

| Sample Number | | VPA042781 | | |
|----------------|-----|----------------|------|--|
| Sample Date | | 29 Apr 2024 | | |
| Machine Hours | | 50 | | |
| Oil Hours | | 50 | | |
| Oil Changed | | Changed | | |
| Sample Status | | NORMAL | | |
| | | | | |
| OIL CONDITION | | | | |
| Visc @ 100°C | cSt | 14.0 | | |
| Oxidation (PA) | % | 54 | | |
| Oxidation (FA) | 70 | J 4 | | |
| CONTAMINATION | | | | |
| | | | | |
| Water | % | NEG | | |
| Soot % | % | 0 | | |
| Nitration (PA) | % | 38 | | |
| Sulfation (PA) | % | 50 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | 15 | | |
| Sodium | ppm | 3 | | |
| Potassium | ppm | 1 | | |
| | | | | |

WEAR METALS

| Iron | ppm | 5 | | |
|------------|-----|-----------|------|--|
| Copper | ppm | 10 | | |
| Lead | ppm | ■<1 | | |
| Tin | ppm | 1 | | |
| Aluminum | ppm | 2 | | |
| Chromium | ppm | 0 | | |
| Molybdenum | ppm | 56 | | |
| Nickel | ppm | ■ <1 | | |
| Titanium | ppm | 0 | | |
| Silver | ppm | 0 | | |
| Manganese | ppm | <1 | | |
| Vanadium | ppm | 0 | | |

ADDITIVES

| Calcium | ppm | 1125 | | |
|------------|-----|-----------|------|--|
| Magnesium | ppm | 873 | | |
| Zinc | ppm | 1137 | | |
| Phosphorus | ppm | 988 | | |
| Barium | ppm | <1 | | |
| Boron | ppm | 11 | | |

Progressive Diesel

2135 Milne Rd PORT MCNEIL, BC CA VON 2R0 Contact: Larry Cox larry.prodsl@hotmail.ca T: F:

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.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:
 VP153880

 Unique No:
 5773337

 Signed:
 Kevin Marson

 Report Date:
 30 Apr 2024

 Contact/Location:
 Larry Cox - VP153880

Report Id: VP153880 [WCAMIS] 02632184 (Generated: 04/30/2024 15:02:44) Rev: 1

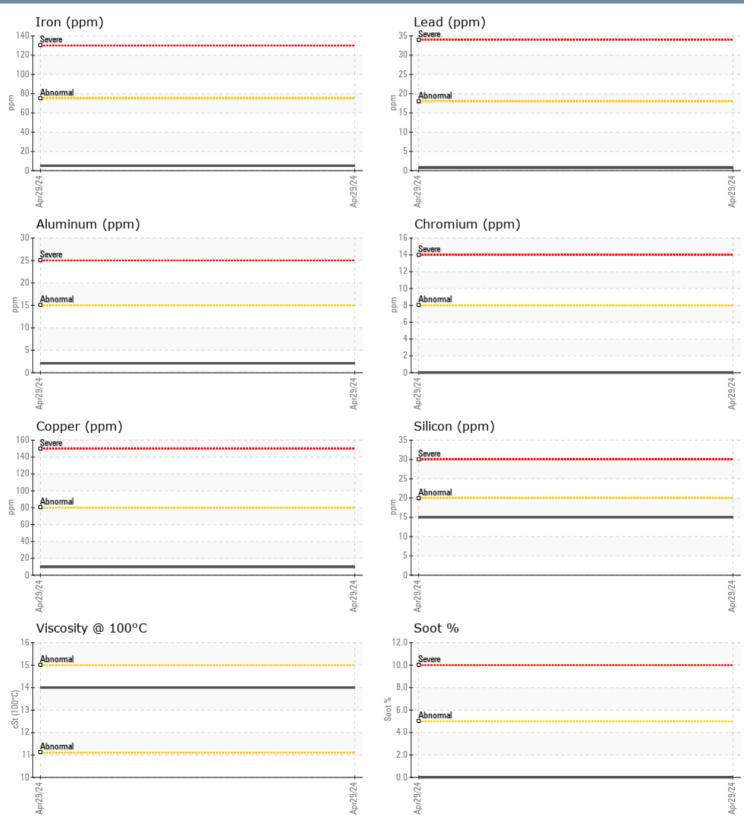
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OIL ANALYSIS REPORT



GRAPHS



Report Id: VP153880 [WCAMIS] 02632184 (Generated: 04/30/2024 15:02:46) Rev: 1

Contact/Location: Larry Cox - VP153880