

OIL ANALYSIS REPORT

VOLVO PENTA

JOHN MCINTOSH NORTHERN LIGHTS 6732-39228C - GENSET

Sample No: VPA058083

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA058083 | --- | --- | --- |
| Sample Date | 15 Jan 2024 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

MELBOURNE MARINE DIESEL

MELBOURNE, FL
US

Contact: SERVICE MANAGER
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F:

OIL CONDITION

| | | | | | |
|------------------|----------|---------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.73 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.2 | --- | --- | --- |
| Oxidation (PA) | % | 53 | --- | --- | --- |

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0.1 | --- | --- | --- |
| Nitration (PA) | % | 63 | --- | --- | --- |
| Sulfation (PA) | % | 48 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 19 | --- | --- | --- |
| Sodium | ppm | █ 1 | --- | --- | --- |
| Potassium | ppm | █ 1 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 1 | --- | --- | --- |
| Copper | ppm | █ < 1 | --- | --- | --- |
| Lead | ppm | █ < 1 | --- | --- | --- |
| Tin | ppm | █ < 1 | --- | --- | --- |
| Aluminum | ppm | █ 3 | --- | --- | --- |
| Chromium | ppm | █ 0 | --- | --- | --- |
| Molybdenum | ppm | █ 84 | --- | --- | --- |
| Nickel | ppm | █ 0 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ < 1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 2080 | --- | --- | --- |
| Magnesium | ppm | █ 22 | --- | --- | --- |
| Zinc | ppm | █ 1239 | --- | --- | --- |
| Phosphorus | ppm | █ 1122 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 85 | --- | --- | --- |

Depot: VP1222400

Unique No: 10832991

Signed: Doug Bogart

Report Date: 16 Jan 2024

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GRAPHS

