

OIL ANALYSIS REPORT

VOLVO PENTA

RICHARDS VOLVO PENTA 3940023374 - STARBOARD IPS

Sample No: VPA046409

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA046409 | --- | --- | --- |
| Sample Date | 28 Jun 2023 | --- | --- | --- |
| Machine Hours | 680 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ATTENTION | --- | --- | --- |

FULL KEEL MARINE SERVICES
314 LEGION AVE
ANNAPOLIS, MD
US 21401
Contact: Service Manager
FULLKEELMARINESERVICES@GMAIL.COM
T: (410)507-3542
F:

OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 106 | --- | --- | --- |
|-------------|-----|-----|-----|-----|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|----|-----|-----|-----|
| Silicon | ppm | 13 | --- | --- | --- |
| Sodium | ppm | 23 | --- | --- | --- |
| Potassium | ppm | 0 | --- | --- | --- |

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| PQ | | 18 | --- | --- | --- |
| Iron | ppm | 259 | --- | --- | --- |
| Copper | ppm | 13 | --- | --- | --- |
| Lead | ppm | 0 | --- | --- | --- |
| Tin | ppm | 0 | --- | --- | --- |
| Aluminum | ppm | 9 | --- | --- | --- |
| Chromium | ppm | 2 | --- | --- | --- |
| Molybdenum | ppm | 0 | --- | --- | --- |
| Nickel | ppm | 3 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | 3 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 20 | --- | --- | --- |
| Magnesium | ppm | 8 | --- | --- | --- |
| Zinc | ppm | 60 | --- | --- | --- |
| Phosphorus | ppm | 1323 | --- | --- | --- |
| Barium | ppm | 0 | --- | --- | --- |
| Boron | ppm | 278 | --- | --- | --- |

Depot: VP1298996
Unique No: 10608403
Signed: Don Baldrige
Report Date: 21 Aug 2023

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GRAPHS

