

[RAFFY LORENTZIAN] VOLVO PENTA A218121 - STERNDRIVE - STARBOARD GEARBOX

Sample No: VPA023716

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA023716 | --- | --- | --- |
| Sample Date | 08 Oct 2021 | --- | --- | --- |
| Machine Hours | 450 | --- | --- | --- |
| Oil Hours | 15 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | SEVERE | --- | --- | --- |

Cogswell Marine & Motorsports, Inc
 865 Stella Street
 CHULA VISTA, CA
 US 91911
 Contact: Mitchell Cogswell
 Cogswellmarinemotorsports@gmail.com
 T:
 F:

OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | █ 108 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Silicon | ppm | █ 3 | --- | --- | --- |
| Sodium | ppm | █ 24 | --- | --- | --- |
| Potassium | ppm | █ 0 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| PQ | | █ 25 | --- | --- | --- |
| Iron | ppm | ▲ 429 | --- | --- | --- |
| Copper | ppm | █ 2 | --- | --- | --- |
| Lead | ppm | █ <1 | --- | --- | --- |
| Tin | ppm | █ 0 | --- | --- | --- |
| Aluminum | ppm | ▲ 9 | --- | --- | --- |
| Chromium | ppm | 5 | --- | --- | --- |
| Molybdenum | ppm | █ 0 | --- | --- | --- |
| Nickel | ppm | 6 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | █ 4 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 31 | --- | --- | --- |
| Magnesium | ppm | █ 3 | --- | --- | --- |
| Zinc | ppm | █ 47 | --- | --- | --- |
| Phosphorus | ppm | █ 1177 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 198 | --- | --- | --- |

Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VP152133
Unique No: 9699785
Signed: Jonathan Hester
Report Date: 18 Oct 2021

GRAPHS

