## **OIL ANALYSIS REPORT**

## VOLVO PENTA

## CRUZ NORTHERN LIGHTS 6732-51261 - GENSET

Sample No: VPA059077

Oil Type: NOT GIVEN

#### SAMPLE INFORMATION VPA059077 Sample Number Sample Date 17 Nov 2023 Machine Hours 0 0 **Oil Hours** Oil Changed N/A ABNORMAL Sample Status **OIL CONDITION** Visc @ 100°C **12.4** cSt Base Number (BN) mg KOH/g 8.6 Oxidation (PA) % 60 CONTAMINATION Water % NEG % Soot % 0.1 Nitration (PA) % 53 Sulfation (PA) % 52 Glycol % NEG Fuel % **7.2** Silicon 18 ppm Sodium **4** ppm Potassium 4 ppm WEAR METALS Iron 6 ppm 2 Copper ppm Lead ppm **||** < 1 Tin ■ <1 ppm Aluminum ppm 2 Chromium <1 ppm Molybdenum 12 ppm Nickel **||** <1 ppm Titanium ppm 68 🔲 0 Silver ppm Manganese <1 ppm Vanadium ppm 1 **ADDITIVES** Calcium 1626 ppm 383 Magnesium ppm Zinc ppm 1147 970 Phosphorus ppm 0 Barium ppm Boron ppm 132

MARINE DIESEL SERVICES INC

1711 WHITTIER AVE, SUITE B COSTA MESA, CA US 92627 Contact: BEN ALMAZAN marinedieselservices@outlook.com T: (949)612-8180 F: x:

### Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. No other contaminants were detected in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

 Depot:
 VP288530

 Unique No:
 10755304

 Signed:
 Doug Bogart

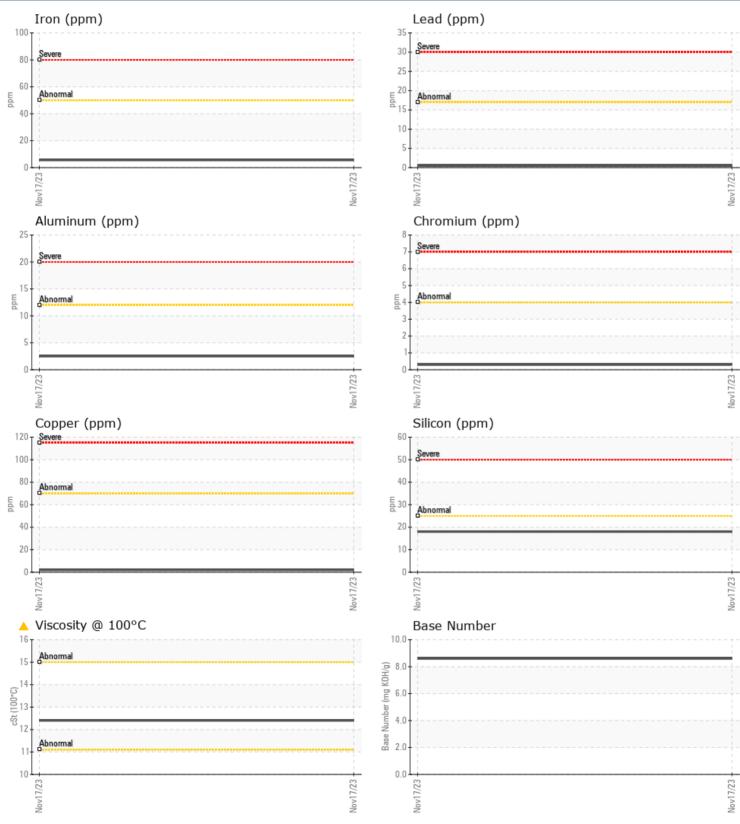
 Report Date:
 30 Nov 2023

Contact/Location: BEN ALMAZAN - VP288530

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### GRAPHS



Report Id: VP288530 [WUSCAR] 06016160 (Generated: 11/30/2023 15:36:09) Rev: 1

Contact/Location: BEN ALMAZAN - VP288530