OIL ANALYSIS REPORT

CATERPILLAR RPMO0173 - STARBOARD DIESEL ENGINE

VPA060383 Sample No:

Oil Type: CAT DIESEL ENGINE OIL 15W40

SAMPLE INFORMATION VPA060383 Sample Number Sample Date 13 Oct 2023 Machine Hours 161 **Oil Hours** 161 Oil Changed Not Changd Sample Status ATTENTION **OIL CONDITION** F: Visc @ 100°C cSt 12.5 Base Number (BN) mg KOH/g 9.0 Oxidation (PA) % 79 CONTAMINATION Soot % % 0.2 % Nitration (PA) 57 Sulfation (PA) % 58 % Glycol NEG Fuel % <1.0 Silicon ppm **4**5 Sodium 13 ppm Potassium 2 ppm WEAR METALS Iron ppm 32 98 Copper ppm Lead ppm 3 Tin 2 ppm Aluminum ppm 29 Chromium 4 ppm Molybdenum 40 ppm Nickel 0 ppm Titanium **||** <1 ppm Silver ppm 0 Manganese **||** <1 ppm Vanadium <1 ppm **ADDITIVES** Calcium 1771 ppm Magnesium 497 ppm Zinc ppm 944 Phosphorus ppm 760 Barium 0 🔲

VOLVO PENTA

SMART DIESEL SERVICE 102 NW 133RD AVE, UNIT 103 PLANTATION, FL

US 33325 Contact: ANDRES GARMENDIA smartdieselservice@gmail.com T: (954)258-8100

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

VPSMAPLA Depot: Unique No: 10702588 Signed: Don Baldridge **Report Date:** 24 Oct 2023

54

ppm

ppm

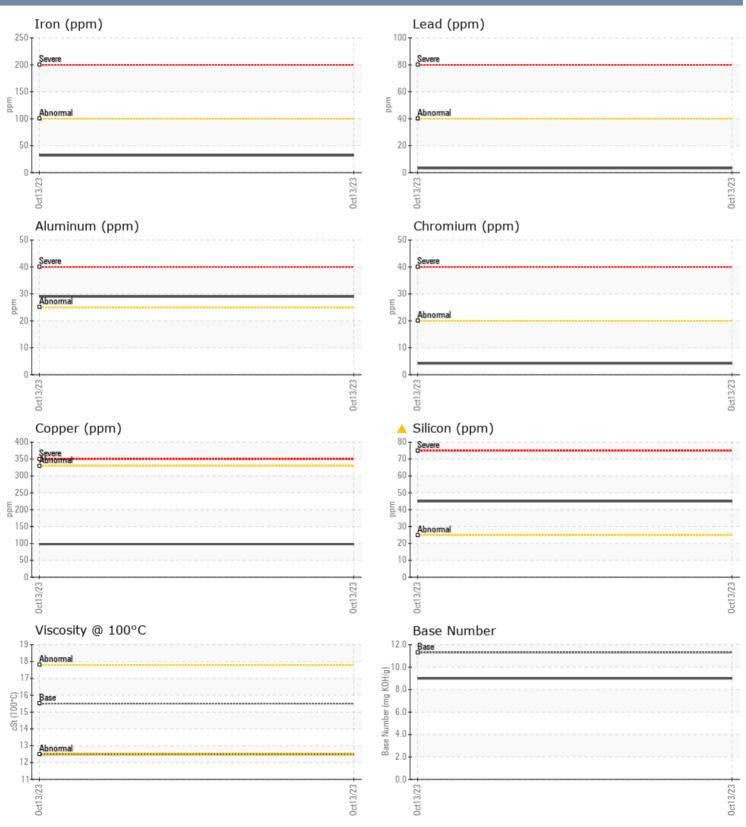
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Contact/Location: ANDRES GARMENDIA - VPSMAPLA

OIL ANALYSIS REPORT



GRAPHS



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