OIL ANALYSIS REPORT

NADINE URCIUOLI STEPHEN BROWN VOLVO PENTA 4012191485 - GASOLINE ENGINE

Sample No: VPA051569

Oil Type: VOLVO

SAMPLE INFORMATION VPA051569 VPA051897 Sample Number Sample Date 25 Mar 2024 31 Jan 2024 Machine Hours 504 0 504 **Oil Hours** 504 Oil Changed Changed Changed MARGINAL Sample Status NORMAL **OIL CONDITION** Visc @ 100°C cSt **17.43** 13.7 5.2 Base Number (BN) mg KOH/g 6.4 Oxidation (PA) % 11 10 CONTAMINATION % NEG Water NFG % Soot % 0.1 0.1 Nitration (PA) % 8 8 % Sulfation (PA) 12 11 Glycol % NEG NFG Fuel % <1.0 <1.0 Silicon 8 7 ppm Sodium 13 12 ppm Potassium 2 2 ppm WEAR METALS 29 Iron 35 ppm 55 44 Copper ppm Lead ■ <1 3 ppm Tin ■ <1 1 ppm Aluminum 4 3 ppm Chromium ppm 2 2 Molybdenum 41 35 ppm Nickel ■ <1 □ < 1 ppm Titanium ppm <1 <1 0 0 Silver ppm Manganese <1 ppm < 1 Vanadium <1 <1 ppm

ADDITIVES				
Calcium	ppm	1604	1578	
Magnesium	ppm	36	31	
Zinc	ppm	763	760	
Phosphorus	ppm	590	601	
Barium	ppm	0	0	
Boron	ppm	0	0	

Helmuts Marine Service

619 Canal Street SAN RAFAEL, CA US 94901-3545 Contact: NADINE URCIUOLI SERVICE@HELMUTSMARINE.COM T: x: F: x:

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Contact/Location: NADINE URCIUOLI - VP152741

VP152741

10963033

10 Apr 2024

Jonathan Hester

Depot:

Signed:

Unique No:

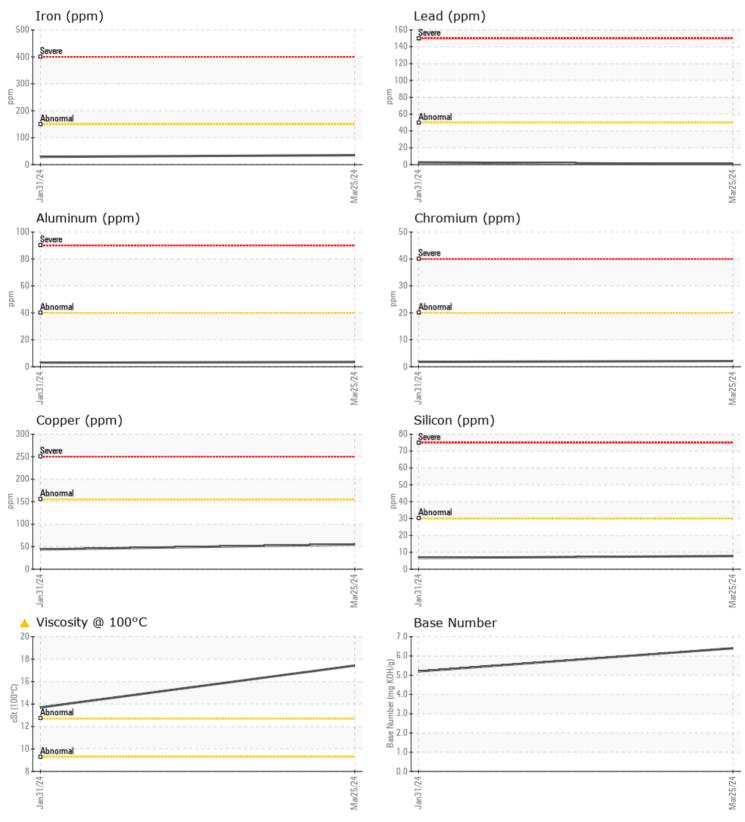
Report Date:



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GRAPHS



Report Id: VP152741 [WUSCAR] 06138225 (Generated: 04/10/2024 13:00:38) Rev: 1

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