## **OIL ANALYSIS REPORT**

### VOLKSWAGEN 3VWPL7AJ8AM647182 - DIESEL ENGINE

Sample No: VPA060367

Oil Type: CASTROL SYNTEC FULL SYN SAE 0W30

Sample NumberVPA060367Sample Date13 Mar 2024Machine Hours0Oil Hours0Oil ChangedNot ChangdSample StatusNORMALOll CONDITIONVisc @ 100°CcStOxidation (PA)%%59CONTAMINATIONWater%%0.2Nitration (PA)%%81Sulfation (PA)%%NEGFuel%Soliconppm4SodiumppmPotassiumppm14WEAR METALSIronppmQpm6Leadppm115Chromiumppm23Nickelppm<1		
Machine Hours0Oil Hours0Oil ChangedNot ChangdSample StatusNORMALOIL CONDITIONVisc @ 100°CcStSase Number (BN)mg KOH/gGoxidation (PA)%%\$9CONTAMINATIONWater%Soot %%%0.2Nitration (PA)%%81Sulfation (PA)%%81Sulfation (PA)%%NEGGlycol%%NEGSodiumppm4SodiumppmPotassiumppm14WEAR METALSIronppmCopperppm6Leadppm15Chromiumppm15Chromiumppm23Nickelppm<1		
Oil ChangedNot ChangdSample StatusNORMALOIL CONDITIONVisc @ 100°CcStBase Number (BN)mg KOH/gGoxidation (PA)%Soot %%Water%NeEGSoot %%Soot %%Soot %%Silicon (PA)%SiliconppmPotassiumppmIronppmVeAR METALSIronppmCopperppmLeadppmInppmSoliumppmSoliumppSodiumppSodiumppPotassiump14SodiumppSoliumspSoliumspSoliumspSoliumspSoliumsp <t< td=""><td></td><td></td></t<>		
Sample StatusNORMALOIL CONDITIONVisc @ 100°CcSt10.8Base Number (BN)mg KOH/g6.7Oxidation (PA)%59CONTAMINATIONWater%NEGSoot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
OIL CONDITIONVisc @ 100°CcSt10.8Base Number (BN)mg KOH/g6.7Oxidation (PA)%59CONTAMINATIONWater%NEGSoot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Visc @ 100°CcSt10.8Base Number (BN)mg KOH/g6.7Oxidation (PA)%59CONTAMINATIONWater%NEGSoot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0Soliconppm4Sodiumppm<1Potassiumppm14WEAR METALSIronppm6Leadppm1Aluminumppm15Chromiumppm23Nickelppm<1		
Base Number (BN)mg KOH/g6.7Oxidation (PA)%59CONTAMINATIONWater%NEGSoot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Oxidation (PA)%59CONTAMINATIONWater%NEGSoot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Oxidation (PA)%59CONTAMINATIONWater%NEGSoot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Water%NEGSoot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Water%NEGSoot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Soot %%0.2Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Nitration (PA)%81Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Sulfation (PA)%45Glycol%NEGFuel%<1.0		
Glycol%NEGFuel%<1.0		
Fuel%<1.0Siliconppm4Sodiumppm<1	  	
Sodiumppm< 1Potassiumppm14WEAR METALSIronppm25Copperppm6Leadppm0Tinppm<1	  	
Potassiumppm14WEAR METALSIronppm25Copperppm6Leadppm0Tinppm<1	 	
WEAR METALS         Iron       ppm         Copper       ppm         Lead       ppm         Tin       ppm         Aluminum       ppm         Chromium       ppm         Molybdenum       ppm         Nickel       ppm	 	
Ironppm25Copperppm6Leadppm0Tinppm<1		
Copperppm6Leadppm0Tinppm<1		
Copperppm6Leadppm0Tinppm<1		
Leadppm0Tinppm<1		
Tinppm<1Aluminumppm15Chromiumppm2Molybdenumppm23Nickelppm<1		
Chromiumppm2Molybdenumppm23Nickelppm<1	 	
Molybdenum ppm 23 Nickel ppm 21	 	
Nickel ppm	 	
Titanium ppm <1	 	
Silver ppm 🔲 0	 	
Manganese ppm 🔤 < 1	 	
Vanadium ppm <1	 	
ADDITIVES		
Calcium ppm 🔲 1455	 	
Magnesium ppm <b>290</b>	 	
Zinc ppm <b>817</b>	 	
Phosphorus ppm <b>634</b>	 	
Barium ppm <b>1</b> Boron ppm <b>219</b>	 	

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 F:

#### Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 VPSMAPLA

 Unique No:
 10939501

 Signed:
 Jonathan Hester

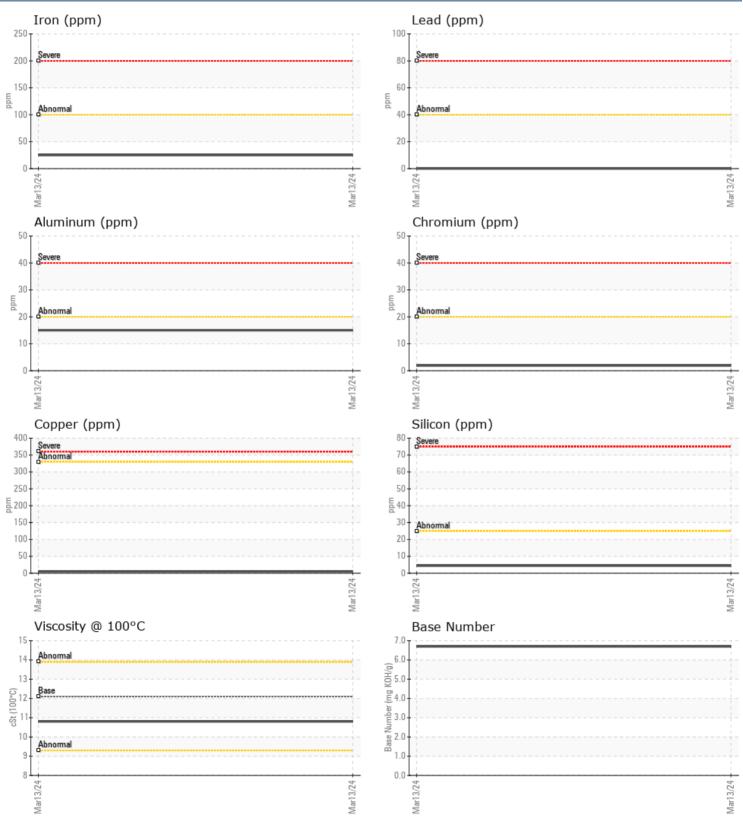
 Report Date:
 22 Mar 2024

Contact/Location: ANDRES GARMENDIA - VPSMAPLA

# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VPSMAPLA [WUSCAR] 06125350 (Generated: 03/22/2024 11:33:41) Rev: 1

Contact/Location: ANDRES GARMENDIA - VPSMAPLA