

CONSTRUCTION EQUIPMENT VOLVO L70H 625046 - DIESEL ENGINE



Sample No: VCP433515

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Oil Type: Job No:

SAMPLE INFORMATIONSample NumberSample DateMachine HoursOil HoursOil ChangedSample StatusOIL CONDITIONVisc @ 100°CcStBase Number (BN)mg KOH/gOxidation (PA)%Water%Soot %%Soutfation (PA)%Soot %%Solifation (PA)%Soot %%Solifation (PA)%Soot %%Sulfation (PA)%Solifation (PA)%Solifation (PA)%Solifation (PA)%Sulfation (PA)%ManpaneppmMagnesiumppmManpaneseppmManpaneseppmManpaneseppmCalciumppmManpaneppmManpaneppmManpane<	VCP433515 28 Nov 2023 870 0		
Sample Number Sample Date Machine Hours Oil Hours Oil Changed Sample Status OIL CONDITON Visc @ 100°C Sample Status OIL CONDITON Visc @ 100°C ContAMINATION Sales Number (BN) Mg KOH/g Oxidation (PA) Soot % Soot %	28 Nov 2023 870	 	
Sample Date in a constant of a	28 Nov 2023 870		
Machine HoursOil HoursIOil ChangedISample StatusIOIL CONDITONVisc @ 100°CcStBase Number (BN)mg KOH/gOxidation (PA)%Vater%Soot %%Nitration (PA)%Sulfation (PA)%Sulfation (PA)%Sulfation (PA)%SoligenoppmSoligeno%Fuel%SodiumppmPotassiumppmVEAR MEX-LSIronppmCopperppmLeadppmAluminumppmMolybdenumppmNickelppmSilverppmSilverppmSilverppmManganeseppmCalciumppmCalciumppmSolumppmSuppose ControlppmSilverppmSuppose ControlppmSilverppmSuppose ControlppmSilverppmSuppose ControlppmSilverppmSuppose ControlppmSilverppmSuppose ControlppmSuppose ControlppmSuppose ControlppmSuppose ControlppmSuppose ControlppmSuppose ControlppmSuppose ControlppmSuppose ControlppmSuppose Control<	870	 	 ALTA EQUIPMENT COMP
Oil HoursImageOil ChangedImageSample StatusImageOIL CONDITONImageVisc @ 100°CcStBase Number (BN)mg KOH/gOxidation (PA)%Vater%Soot %%Nitration (PA)%Sulfation (PA)%Sulfation (PA)%Soligeol%Sulfation (PA)%Sulfation (PA)%Sulfation (PA)%Sulfation (PA)%Sulfation (PA)%Sulfation (PA)%SodiumppmSodiumppmSodiumppmVEAR METALSIronppmCopperppmLeadppmAluminumppmNickelppmNickelppmSilverppmSilverppmVanadiumppmVanadiumppmControliumppmSilverppmCalciumppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppmSubstructppm <truct< td="">ppmSubstruct<t< td=""><td></td><td> </td><td> 5151 DR MARTIN LUTHER</td></t<></truct<>		 	 5151 DR MARTIN LUTHER
Oil Changed Sample Status OIL CONDITON Visc @ 100°C cSt Base Number (BN) mg KOH/g Oxidation (PA) % CONTAMINATION Vater % Soot % % Nitration (PA) % Sulfation (P	U	 	 FORT MYERS, FL
Sample Status OIL CONDITION Visc @ 100°C cSt Base Number (BN) Mg KOH/g Oxidation (PA) CONTAMINATION CONTAMINATION Water CONTAMINATION Water CONTAMINATION Water CONTAMINATION Water CONTAMINATION Water Solot % Sulfation (PA) Sulfatio	Changed	 	 US 33905
OIL CONDITIONVisc @ 100°CcStBase Number (BN)mg KOH/gOxidation (PA)%CONTAMINATIONWater%Soot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%SoliconppmSodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmTinppmAluminumppmChromiumppmNickelppmNickelppmSilverppmManganeseppmVanadiumppmCalciumppm	NORMAL	 	 Contact: TODD LARK
OIL CONDITIONVisc @ 100°CcStBase Number (BN)mg KOH/gOxidation (PA)%CONTAMINATIONWater%Soot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%SodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmTinppmAluminumppmChromiumppmNickelppmSilverppmSilverppmVanadiumppmConserseppmSilverppmManganeseppmCalciumppmPotasiumppmSilverppmManganeseppmSundum <td< td=""><td>NORMAL</td><td></td><td>tlark@altaequipfl.com</td></td<>	NORMAL		tlark@altaequipfl.com
Base Number (BN) mg KOH/g Oxidation (PA) % CONTAMINATION Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm Potassium ppm VEAR METALS Iron ppm Copper ppm Lead ppm Lead ppm Tin ppm Aluminum ppm Chromium ppm Chromium ppm Nickel ppm Nickel ppm Nickel ppm Nickel ppm Silver ppm Silver ppm Vanadium ppm			T: F: (239)481-3302
Oxidation (PA)%CONTAMINATIONWater%Soot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%SodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmAluminumppmChromiumppmNickelppmNickelppmSilverppmManganeseppmVanadiumppmCalciumppmPotassiumppmSilverppmManganeseppmVanadiumppmVanadiumppmNickelppmManganeseppmVanadiumpp	12.8	 	 1. (233)401 3302
Oxidation (PA)%CONTAMINATIONWater%Soot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%SodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmAluminumppmChromiumppmNickelppmNickelppmSilverppmManganeseppmVanadiumppmCalciumppmPotassiumppmSilverppmManganeseppmVanadiumppmVanadiumppmNickelppmManganeseppmVanadiumpp	8.6	 	
CONTAMINATIONWater%Soot %%Soot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%SodiumppmPotassiumppmPotassiumppmCopperppmLeadppmTinppmAluminumppmChromiumppmNickelppmTitaniumppmSilverppmManganeseppmVanadiumppmCalciumppmPotassiumppmSilverppmManganeseppmVanadiumppmSubstrikterppmS	75	 	 Diagnosis
CONTAMINATIONWater%Soot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%SodiumppmSodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmTinppmAluminumppmChromiumppmNickelppmTitaniumppmSilverppmVanadiumppmCalciumppm			Resample at the next serv
Water%Soot %%Soot %%Nitration (PA)%Sulfation (PA)%Glycol%Fuel%SodiumppmSodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmAluminumppmChromiumppmNickelppmNickelppmSilverppmSilverppmVanadiumppmCalciumppm			 to monitor.Metal levels are
Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon ppm Sodium ppm Potassium ppm VEAR METALS Iron ppm Copper ppm Lead ppm Lead ppm Aluminum ppm Aluminum ppm Aluminum ppm Nickel ppm Nickel ppm Silver ppm Manganese ppm Vanadium ppm Chromium ppm			a new component breakin
Nitration (PA)%Sulfation (PA)%Glycol%Fuel%SoliumppmSodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmAluminumppmChromiumppmNickelppmTitaniumppmSilverppmManganeseppmVanadiumppmCalciumppmPotassippmNotybeppmNotybeppmSilverppmManganeseppmVanadiumppmSubstripping	NEG	 	 is no indication of any con
Sulfation (PA)%Glycol%Fuel%SiliconppmSodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmTinppmAluminumppmChromiumppmNickelppmTitaniumppmSilverppmManganeseppmVanadiumppmCalciumppm	0.3	 	 in the oil. The BN result in
Glycol%Fuel%Fuel%SoliconppmSodiumppmPotassiumppmVEAR METALSIronppmCopperppmLeadppmAluminumppmChromiumppmNickelppmTitaniumppmSilverppmSilverppmVanadiumppmCalciumppmPotassiumppmSubstringppm <td>65</td> <td> </td> <td> there is suitable alkalinity in the oil. The condition of</td>	65	 	 there is suitable alkalinity in the oil. The condition of
Fuel%SiliconppmSodiumppmPotassiumppmPotassiumppmWEAR METALSIronppmCopperppmLeadppmTinppmAluminumppmChromiumppmMolybdenumppmNickelppmTitaniumppmSilverppmVanadiumppmCalciumppm	58	 	 suitable for further service
Silicon ppm Sodium ppm Potassium ppm VEAR METALS Iron ppm Copper ppm Lead ppm Lead ppm Aluminum ppm Aluminum ppm Chromium ppm Chromium ppm Nickel ppm Nickel ppm Silver ppm Silver ppm Vanadium ppm	NEG	 	
Sodium ppm Potassium ppm WEAR METALS Iron ppm Copper ppm Lead ppm Lead ppm Aluminum ppm Chromium ppm Chromium ppm Molybdenum ppm Nickel ppm Nickel ppm Nickel ppm Silver ppm Silver ppm Chromium ppm	<1.0	 	
PotassiumppmWEAR METALSIronppmCopperppmLeadppmTinppmAluminumppmChromiumppmMolybdenumppmNickelppmSilverppmSilverppmVanadiumppmChromiumppmSilverppmChromiumppmSilverppmCalciumppm	1 9	 	
WEAR METALSIronppmCopperppmLeadppmTinppmAluminumppmChromiumppmMolybdenumppmNickelppmTitaniumppmSilverppmSilverppmVanadiumppmCalciumppm	3	 	
WEAR METALSIronppmCopperppmLeadppmTinppmAluminumppmChromiumppmMolybdenumppmNickelppmTitaniumppmSilverppmVanadiumppmCalciumppm	■ <1	 	
CopperppmLeadppmTinppmAluminumppmChromiumppmMolybdenumppmNickelppmTitaniumppmSilverppmManganeseppmVanadiumppmADDITIVESCalciumppm			
LeadppmTinppmAluminumppmChromiumppmMolybdenumppmNickelppmTitaniumppmSilverppmVanadiumppmADDITIVESCalciumppm	32	 	
Tin ppm Aluminum ppm Chromium ppm Molybdenum ppm Nickel ppm Titanium ppm Silver ppm Manganese ppm Vanadium ppm	9	 	
Aluminum ppm Chromium ppm Molybdenum ppm Nickel ppm Titanium ppm Silver ppm Manganese ppm Vanadium ppm Calcium ppm	1	 	
Chromium ppm Molybdenum ppm Nickel ppm Titanium ppm Silver ppm Manganese ppm Vanadium ppm	3	 	
Molybdenum ppm Nickel ppm Titanium ppm Silver ppm Manganese ppm Vanadium ppm	16	 	
Molybdenum ppm Nickel ppm Titanium ppm Silver ppm Manganese ppm Vanadium ppm ADDITIVES Calcium ppm	2	 	
Nickel ppm Titanium ppm Silver ppm Manganese ppm Vanadium ppm ADDITIVES Calcium ppm	50	 	
Titanium ppm Silver ppm Manganese ppm Vanadium ppm ADDITIVES Calcium ppm	0	 	
Silver ppm Manganese ppm Vanadium ppm ADDITIVES Calcium ppm	0	 	
Manganese ppm Vanadium ppm ADDITIVES Calcium ppm	0	 	
Vanadium ppm ADDITIVES Calcium ppm	4	 	
ADDITIVES Calcium ppm	0	 	
Calcium ppm			
Calcium ppm			
11	1723	 	
ppin ppin	633	 	
Zinc ppm	1377	 	
	1118	 	
	2		
			 Depot: VOLVO0090
Boron ppm	65	 	 Unique No: 10767394 Signed: Wes Davis



ANY

KING BLVD

ice interval e typical for g in. There tamination dicates that remaining the oil is

Contact/Location: TODD LARK - VOLVO0090

04 Dec 2023

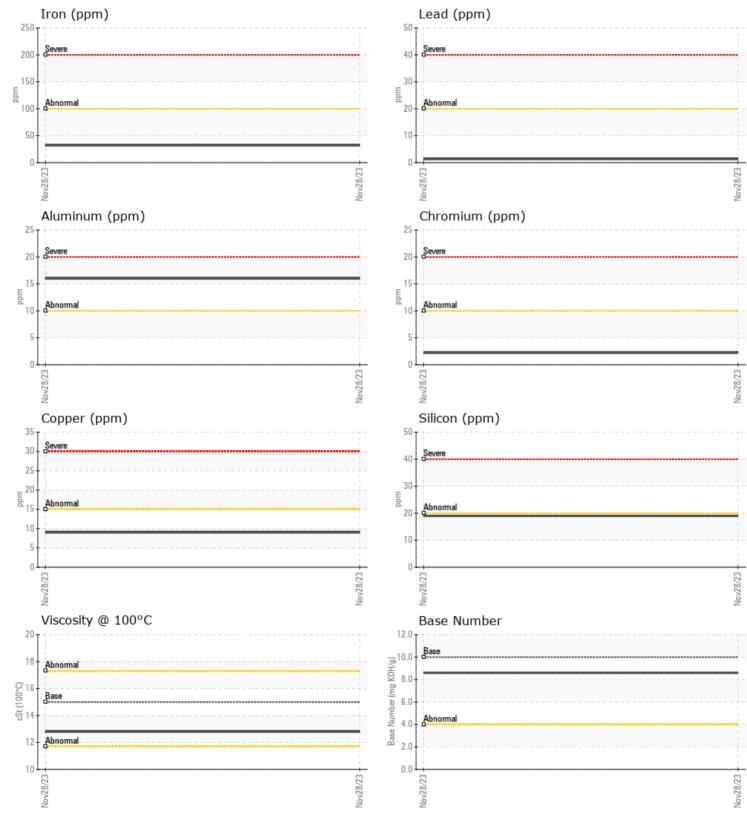
Report Date:

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO0090 [WUSCAR] 06022894 (Generated: 12/04/2023 15:12:07) Rev: 1

Contact/Location: TODD LARK - VOLVO0090