

CONSTRUCTION EQUIPMENT VOLVO L 180H 5663 - DIESEL ENGINE



Sample No: VCP433510

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Oil Type: Job No:

SAMPLE INFOR Sample Number Sample Date Machine Hours Oil Hours Oil Changed Sample Status OIL CONDITION Visc @ 100°C cS Base Number (BN) mg Oxidation (PA) % CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Sulfatio	V Or 1 O C A C A C A C A C O C C A C C C C C C	ACP433510 9 Dec 2023 357 Changed BNORMAL 11.0 4.1 69 NEG 0.5 83 67 NEG 0.6 20 4 7			ALTA EQUIPMENT COMPAN 5151 DR MARTIN LUTHER KI FORT MYERS, FL US 33905 Contact: TODD LARK tlark@altaequipfl.com T: F: (239)481-3302 Diagnosis Oil and filter change at the t sampling has been noted. R at the next service interval to monitor.The copper level is All other component wear ra normal. Fuel content negligi Elemental level of silicon (Si) normal The oil viscosity is lo normal. The BN level is low. oil type.
Sample Number Sample Date Machine Hours Oil Hours Oil Changed Sample Status Oil CONDITION Visc @ 100°C cS Base Number (BN) mg Oxidation (PA) % Soot % % Nitration (PA) % Solfation (PA) % Sulfation (PA) % Fuel % Silicon pp Sodium pp Copper pp Lead pp Tin pp Aluminum pp	V Or 1 O C A C A C A C A C O C C A C C C C C C	9 Dec 2023 357 hanged BNORMAL 11.0 4.1 69 0.5 83 67 NEG 0.6 20 4	initial ini		5151 DR MARTIN LUTHER KI FORT MYERS, FL US 33905 Contact: TODD LARK tlark@altaequipfl.com T: F: (239)481-3302 Diagnosis Oil and filter change at the t sampling has been noted. R at the next service interval to monitor.The copper level is All other component wear ra normal. Fuel content negligi Elemental level of silicon (Si) normal The oil viscosity is lo normal. The BN level is low.
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Oil Hours Oil Changed Sample Status OIL CONDITION Visc @ 100°C cS Base Number (BN) mg Oxidation (PA) % Contramination (PA) % Soot % % Nitration (PA) % Sulfation (PA) % Solifation (PA) % Solifation (PA) % Sulfation (PA) % Sulfation (PA) % Sulfation (PA) % Sulfation (PA) % Solium pp Potassium pp Copper pp Lead pp Tin pp Aluminum pp	O C A I t g KOH/g ON	Changed BNORMAL 11.0 4.1 69 0.5 83 67 NEG 0.6 20 4			FORT MYERS, FL US 33905 Contact: TODD LARK tlark@altaequipfl.com T: F: (239)481-3302 Diagnosis Oil and filter change at the t sampling has been noted. R at the next service interval to monitor.The copper level is All other component wear ra normal. Fuel content negligi Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Oil Changed Sample Status OIL CONDITION Visc @ 100°C cS Base Number (BN) mg Oxidation (PA) % Soltfation (PA) % Soltfation (PA) % Sulfation (PA) %	C A I t g KOH/g ON	Changed BNORMAL 11.0 4.1 69 0.5 83 67 NEG 0.6 20 4			US 33905 Contact: TODD LARK tlark@altaequipfl.com T: F: (239)481-3302 Diagnosis Oil and filter change at the t sampling has been noted. R at the next service interval to monitor.The copper level is All other component wear r normal. Fuel content negligi Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Sample Status OIL CONDITION Visc @ 100°C cS Base Number (BN) mg Oxidation (PA) % CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Lead pp Lead pp Aluminum pp	A t A g KOH/g A ON	BNORMAL 11.0 4.1 69 NEG 0.5 83 67 NEG 0.6 20 4			Contact: TODD LARK tlark@altaequipfl.com T: F: (239)481-3302 Diagnosis Oil and filter change at the f sampling has been noted. R at the next service interval t monitor.The copper level is All other component wear r normal. Fuel content neglig Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
OIL CONDITION Visc @ 100°C cS Base Number (BN) mg Oxidation (PA) % CONTAMINATI % Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Silicon pp Sodium pp Copper pp Lead pp Tin pp Aluminum pp	KOH/g	 11.0 4.1 69 NEG 0.5 83 67 NEG 0.6 20 4 			tlark@altaequipfl.com T: F: (239)481-3302 Diagnosis Oil and filter change at the filter sampling has been noted. R at the next service interval t monitor.The copper level is All other component wear r normal. Fuel content neglig Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
OIL CONDITION Visc @ 100°C cS Base Number (BN) mg Oxidation (PA) % CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Solicon pp Potassium pp Voto WEAR METALL Iron pp Lead pp Tin pp Aluminum pp	t A g KOH/g A A A A A A A A A A A A A A A A A A A	4.1 69 0.5 83 67 NEG 0.6 20 4			T: F: (239)481-3302 Diagnosis Oil and filter change at the f sampling has been noted. R at the next service interval t monitor.The copper level is All other component wear r normal. Fuel content neglig Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Visc @ 100°C cS Base Number (BN) mg Oxidation (PA) % CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Potassium pp VEAR METALS Iron pp Copper pp Lead pp Tin pp Aluminum pp	t A g KOH/g A A A A A A A A A A A A A A A A A A A	4.1 69 0.5 83 67 NEG 0.6 20 4			F: (239)481-3302 Diagnosis Oil and filter change at the filter sampling has been noted. R at the next service interval t monitor.The copper level is All other component wear r normal. Fuel content neglig Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Base Number (BN) mg Oxidation (PA) % CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon Pp Sodium Pp Otassium pp Copper pp Lead pp Tin pp Aluminum pp	g KOH/g	4.1 69 0.5 83 67 NEG 0.6 20 4			Diagnosis Oil and filter change at the sampling has been noted. R at the next service interval t monitor.The copper level is All other component wear r normal. Fuel content neglig Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Oxidation (PA) % CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Potassium pp Copper pp Lead pp Tin pp Aluminum pp		69 NEG 0.5 83 67 NEG 0.6 20 4	 		Oil and filter change at the f sampling has been noted. R at the next service interval t monitor.The copper level is All other component wear r normal. Fuel content neglig Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Potassium pp VEAR METALL Iron pp Copper pp Lead pp Tin pp Aluminum pp	om A	NEG 0.5 83 67 NEG 0.6 20 4	 		Oil and filter change at the t sampling has been noted. R at the next service interval to monitor.The copper level is All other component wear r normal. Fuel content negligi Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Potassium pp Copper pp Lead pp Tin pp Aluminum pp	om A	0.5 83 67 NEG 0.6 20 4	 		sampling has been noted. R at the next service interval to monitor. The copper level is All other component wear ra normal. Fuel content negligi Elemental level of silicon (Si) normal The oil viscosity is lo normal. The BN level is low.
CONTAMINATI Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Vetassium pp Vetassium pp Copper pp Lead pp Tin pp Aluminum pp	om A	0.5 83 67 NEG 0.6 20 4	 		at the next service interval to monitor. The copper level is All other component wear ro normal. Fuel content negligi Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Water % Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Potassium pp Verage MetTall Iron pp Lead pp Tin pp Aluminum pp	om A	0.5 83 67 NEG 0.6 20 4	 		monitor.The copper level is All other component wear ranormal. Fuel content negligi Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Soot % % Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Potassium pp Vetassium pp Copper pp Lead pp Tin pp Aluminum pp	om 🔺	0.5 83 67 NEG 0.6 20 4	 		All other component wear r normal. Fuel content negligi Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Nitration (PA) % Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Potassium pp VEAR METAL Iron pp Copper pp Lead pp Tin pp Aluminum pp	om 🔺	83 67 NEG 0.6 20 4	 		normal. Fuel content negligi Elemental level of silicon (Si normal The oil viscosity is lo normal. The BN level is low.
Sulfation (PA) % Glycol % Fuel % Silicon pp Sodium pp Otassium pp VEAR METAL Iron pp Copper pp Lead pp Tin pp Aluminum pp	om 🔺	67 NEG 0.6 20 4	 		Elemental level of silicon (Si) normal The oil viscosity is lo normal. The BN level is low.
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Fuel % Silicon pp Sodium pp Potassium pp WEAR METALL Iron pp Copper pp Lead pp Tin pp Aluminum pp	om 🔺	0.6 20 4	 	 10	
Silicon pp Sodium pp Potassium pp WEAR METAL Iron pp Copper pp Lead pp Tin pp Aluminum pp	om 🔺	20 4	 		oil type.
Sodium pp Potassium pp WEAR METAL Iron pp Copper pp Lead pp Tin pp Aluminum pp	m	4	 		
Potassium pp WEAR METALL Iron pp Copper pp Lead pp Tin pp Aluminum pp					
WEAR METALS Iron pp Copper pp Lead pp Tin pp Aluminum pp	om	1	 		
Iron pp Copper pp Lead pp Tin pp Aluminum pp					
Iron pp Copper pp Lead pp Tin pp Aluminum pp	2				
Copper pp Lead pp Tin pp Aluminum pp	om 🛛	24	 		
Lead pp Tin pp Aluminum pp		85	 		
Tin pp Aluminum pp		∎<1	 		
Aluminum pp		3	 		
		3	 		
		<1	 		
Molybdenum pp		81	 		
Nickel pp		1	 		
Titanium pp		0	 		
Silver pp		0	 		
Manganese pp		3	 		
Vanadium pp		0	 		
Calcium pp	om	1985	 		
Magnesium pp		122	 		
Zinc pp		1191	 		
Phosphorus pp		942	 		
Barium pp		0	 		Depot: VOLVO0090
Boron pp			 		Unique No: 10789214
	m	10			



ANY

KING BLVD

time of Resample to abnormal. rates are gible. Si) above lower than . Confirm

19 Dec 2023

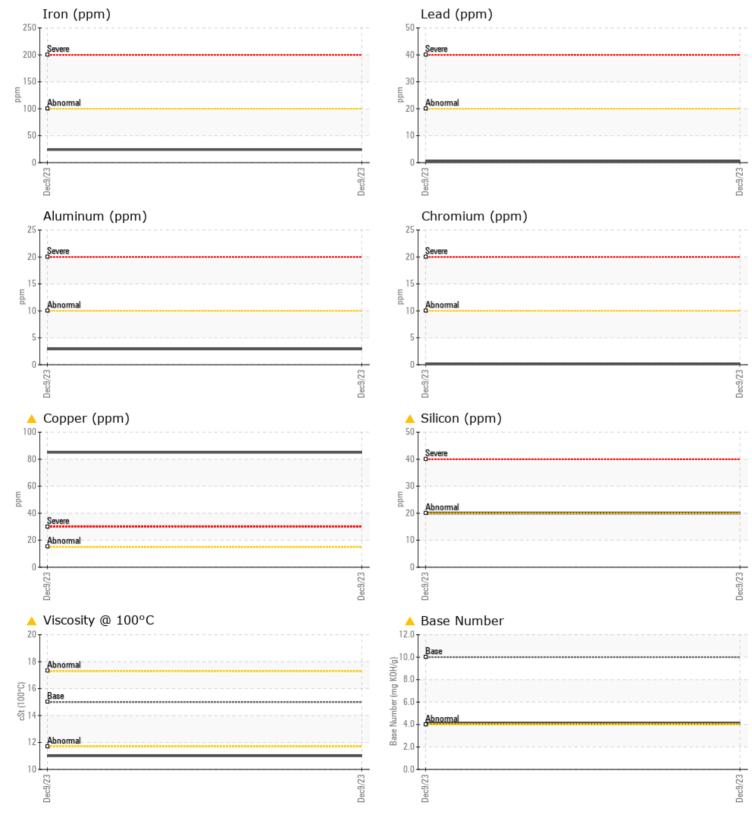
Report Date:

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO0090 [WUSCAR] 06033985 (Generated: 12/19/2023 14:27:53) Rev: 1

Contact/Location: TODD LARK - VOLVO0090