## **CONSTRUCTION EQUIPMENT** 4165HO BN EXCAVATING VOLVO EC350EL 310724 - DIESEL ENGI

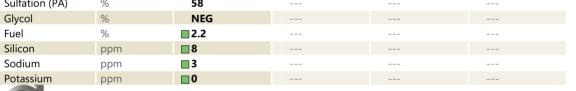
Sample No: VCP435012

VOLVO

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: 4165HO BN EXCAVATING

## SAMPLE INFORMATION VCP435012 Sample Number Sample Date 21 Aug 2023 Machine Hours 1544 Oil Hours 500 Oil Changed Changed ATTENTION Sample Status **OIL CONDITION** Visc @ 100°C cSt Base Number (BN) mg KOH/g 8.1 Oxidation (PA) 79 % CONTAMINATION % 0.1 Soot % Nitration (PA) % 69 Sulfation (PA) % 58



WEAR METALS

Iron	ppm	5	 	
Copper	ppm	21	 	
Lead	ppm	■<1	 	
Tin	ppm	<b>1</b>	 	
Aluminum	ppm	<b></b> <1	 	
Chromium	ppm	0	 	
Molybdenum	ppm	48	 	
Nickel	ppm	0	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	□<1	 	
Vanadium	ppm	<1	 	

Variaulu

ADDITIVES								
ppm	1735							
ppm	556							
ppm	<b>1033</b>							
ppm	872							
ppm	0							
ppm	■41							
	ppm ppm ppm ppm	ppm  556    ppm  1033    ppm  872    ppm  0	ppm  556     ppm  1033     ppm  872     ppm  0	ppm  556      ppm  1033      ppm  872      ppm  0				



HIGHWAY EQUIPMENT AND SUPPLY CO

200 BURKHOLDER DR. EPHRATA, PA US 17522 Contact: CHAD HERRON chad@hwyequip.com T: (717)859-3132 F: (717)859-2698

## 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. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:INSEPHUnique No:10621100Signed:Don BaldridgeReport Date:30 Aug 2023

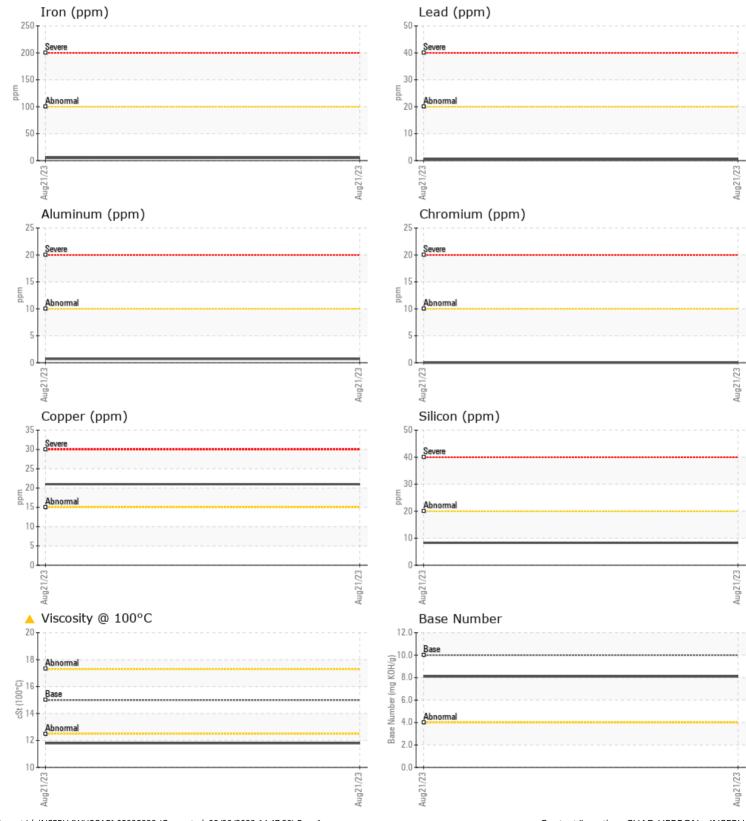
Contact/Location: CHAD HERRON - INSEPH

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: INSEPH [WUSCAR] 05935829 (Generated: 08/30/2023 14:47:20) Rev: 1

Contact/Location: CHAD HERRON - INSEPH