# CONSTRUCTION EQUIPMENT X14085 IAA VOLVO L90H 627141 - DIESEL ENGINE

# Sample No: VCP399197 Oil Type: VOLVO ULT

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

X14085 IAA

### SAMPLE INFORMATION

Sample Number	-	VCP399197	VCP400339				
Sample Date		19 Apr 2024	22 Dec 2023				
Machine Hours		1024	497				
Oil Hours		500	497				
Oil Changed		Changed	Changed				
Sample Status		ATTENTION	NORMAL				
OIL CONDITION							
Visc @ 100°C	cSt	8.3	12.7				
Base Number (BN)	mg KOH/g	<b>10.7</b>	10.0				
Oxidation (PA)	%	81	73				
CONTAMINATION							
Water	%	NEG	NEG				
Soot %	%	0.4	0.3				
Nitration (PA)	%	61	56				
Sulfation (PA)	%	62	59				
Glycol	%	NEG	NEG				
Fuel	%	0.2	<1.0				
Silicon	ppm	8	19				
Sodium	ppm	2	3				
Potassium	ppm	<b>  </b> <1	2				



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#### 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.

VOLVO				
	METALS			
Iron	ppm	<b>1</b> 7	27	 
Copper	ppm	2	7	 
Lead	ppm	0	< 1	 
Tin	ppm	□<1	2	 
Aluminum	ppm	3	13	 
Chromium	ppm	<b>□</b> <1	2	 
Molybdenum	ppm	<b>42</b>	38	 
Nickel	ppm	0	0	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	□<1	4	 
Vanadium	ppm	0	0	 

ADDITIVES						
Calcium	ppm	2038	1621			
Magnesium	ppm	560	621			
Zinc	ppm	<b>1317</b>	1199			
Phosphorus	ppm	<b>1094</b>	1003			
Barium	ppm	0	2			
Boron	ppm	36	46			

 Depot:
 VOLVO6241

 Unique No:
 10994120

 Signed:
 Don Baldridge

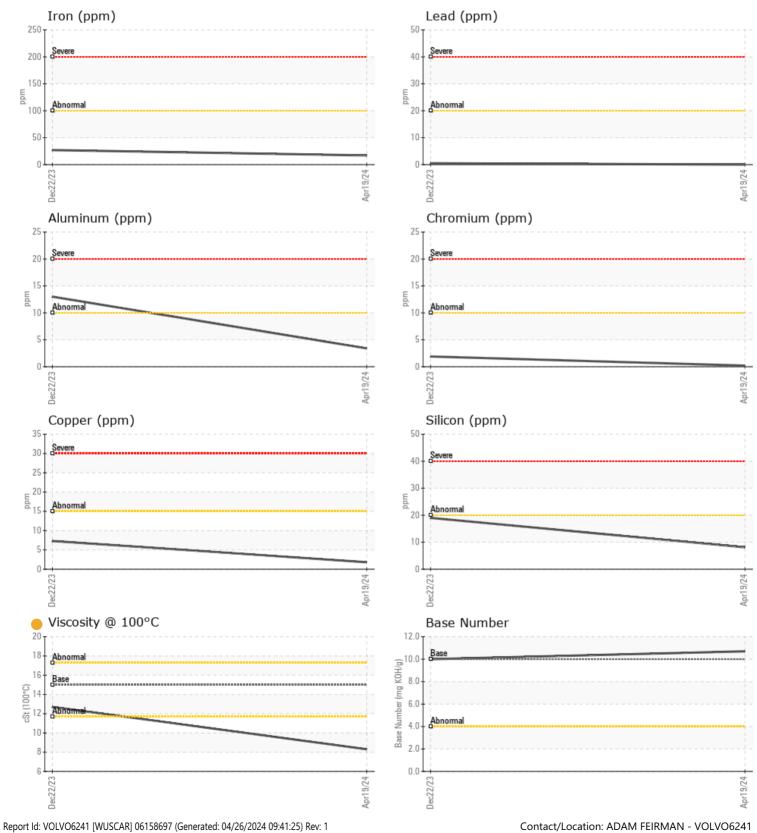
 Report Date:
 26 Apr 2024

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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