

## **CONSTRUCTION EQUIPMENT**

658972 VOLVO ECR 145EL 3 1 1 2 6 1 - HYDRAULIC SYSTEM

Sample No: VCP442571

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

**Job No:** 658972



WEAR METALS								
Iron	ppm	□0	<b>4</b>					
Copper	ppm	■28	<b>2</b> 5					
Lead	ppm	<b>■&lt;1</b>	<b>1</b>					
Tin	ppm	■0	0					
Aluminum	ppm	<b>1</b>	<b>0</b>					
Chromium	ppm	<b>■&lt;1</b>	<b>-</b> <1					
Molybdenum	ppm	<b>0</b>	<b>-</b> <1					
Nickel	ppm	■0	0					
Titanium	ppm	0	<1					
Silver	ppm	0	<1					
Manganese	ppm	<b>0</b>	<b>-</b> <1					
Vanadium	ppm	0	0					

ADDITIVES								
Calcium	ppm	<b>132</b>	<b>127</b>					
Magnesium	ppm	<b>9</b>	<b>2</b>					
Zinc	ppm	<b>508</b>	<b>□</b> 535					
Phosphorus	ppm	<b>403</b>	<b>444</b>					
Barium	ppm	<b>0</b>	<b>0</b>					
Boron	ppm	<b>■</b> 0	<b>2</b>					



#### **RIPA AND ASSOCIATES**

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T:
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### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

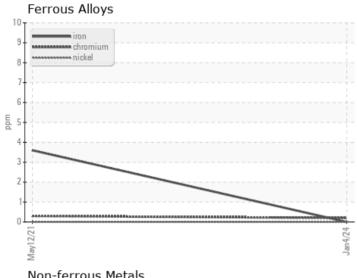
Depot:RIPTAMUnique No:10861819Signed:Jonathan HesterReport Date:07 Feb 2024



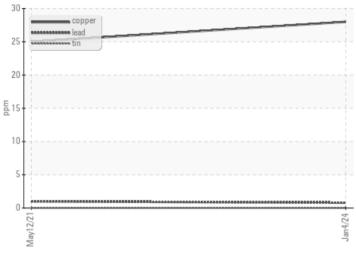
# **CONSTRUCTION EQUIPMENT**











## Viscosity @ 40°C



0.60 0.50 0.45 (mg KOH/g) 0.35 Umper (0.30 0.25 B 0.20 0.15 0.10

Acid Number

0.00