

## CONSTRUCTION EQUIPMENT SW27529 VOLVO ECR145E 31452 - HYDRAULIC SYSTEM

Sample No: VCP430506

Oil Type: **AW HYDRAULIC OIL ISO 46** 

Job No: SW27529

SAMPLE IN	IFORMATION				
Sample Number		VCP430506			
Sample Date		13 Dec 2023			
Machine Hours		2127			
Oil Hours		2127			
Oil Changed		Changed			
OIL CONDITION					
					-
Visc @ 40°C	cSt	<b>42.0</b>			
Acid Number (AN)	mg KOH/g	<b>0.46</b>			
VOLVO	ATION				

CONTA	MINATION			
Water	%	NEG	 	
Particles >4µm		▲ 55257	 	
Particles >6µm		<b>17575</b>	 	
Particles >14µm	1	<b>1836</b>	 	
ISO 4406:1999 (	(c)	23/21/18	 	
Silicon	ppm	<b>■</b> 7	 	
Sodium	ppm	<b>0</b>	 	
Potassium	ppm	<b>■</b> 1	 	

WEAR METALS					
Iron	ppm	<b>5</b>			
Copper	ppm	<b>19</b>			
Lead	ppm	<b>■&lt;1</b>			
Tin	ppm	■0			
Aluminum	ppm	<b>2</b>			
Chromium	ppm	<b></b>			
Molybdenum	ppm	<b>■</b> <1			
Nickel	ppm	■0			
Titanium	ppm	<1			
Silver	ppm	0			
Manganese	ppm	<b>0</b>			
Vanadium	ppm	0			

ADDITIVES					
Calcium	ppm	<b>100</b>			
Magnesium	ppm	<b>■</b> 6			
Zinc	ppm	<b>■</b> 526			
Phosphorus	ppm	<b>402</b>			
Barium	ppm	<b>6</b>			
Boron	ppm	■0			



**ARNOLD MACHINERY COMPANY** 3330 NORTH YELLOWSTONE HIGHWAY IDAHO FALLS, ID US 83401 Contact: JASON MERRILL jmerrill@arnoldmachinery.com T: (208)523-0822

## Diagnosis

F: (208)523-9918

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO0077 **Unique No:** 10795801 Signed: Wes Davis Report Date: 21 Dec 2023



## **CONSTRUCTION EQUIPMENT**





## GRAPHS

