Sample No: VCP454290

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

**Job No:** SW-35664-2 RAMSEY

VOLVO				
SAMPLE II	NFORMATION			
Sample Number		VCP454290	 	
Sample Date		06 Jun 2024	 	
Machine Hours		502	 	
Oil Hours		502	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
Sample Status		ATTENTION		
VOLVO				
OIL CONDI	TION			
Visc @ 100°C	cSt	<b>11.1</b>	 	
Base Number (BN)	mg KOH/g	■5.4	 	
Oxidation (PA)	%	65	 	
CONTAMIN	NATION			
_	_			
Water	%	NEG	 	
Soot %	%	■ 0.9	 	
Nitration (PA)	%	87	 	
Sulfation (PA)	%	59	 	
Glycol	%	NEG	 	
Fuel	%	■0.8	 	
Silicon	ppm	■29	 	
Sodium	ppm	<b>■</b> 3	 	
Potassium	ppm	<b>4</b>	 	
VOLVO				
WEAR ME	TALS			
Iron		<b>□</b> 40	 	
Copper	ppm	<b>■</b> 40	 	
Lead	ppm	<b>■</b> 2	 	
Tin	ppm	<b>6</b>	 	
Aluminum	ppm	■4	 	
Chromium	ppm	<b>2</b>	 	
Molybdenum	ppm	<b>■93</b>	 	
Nickel	ppm	<b>4</b>	 	
Titanium		<1	 	
Silver	ppm	~ 1	 	
Manganese	ppm	<b>2</b>	 	
Vanadium	ppm	<1	 	
variauluili	ppiii	<u> </u>	-34	
VOLVO				
ADDITIVE:	7			
Calcium	ppm	<b>2237</b>	 	
Magnesium	ppm	<b>28</b>	 	
Zinc	ppm	<b>1140</b>	 	
Phosphorus	ppm	<b>923</b>	 	
Barium	ppm	<b>-</b> <1	 	

## ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH
SALT LAKE CITY, UT
US 84119
Contact: TONY PAYAN
tpayan@arnoldmachinery.com
T: (801)972-4000
F: (801)975-9434

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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:VOLVO8770Unique No:11085931Signed:Don BaldridgeReport Date:20 Jun 2024

ppm

Boron



## **CONSTRUCTION EQUIPMENT**





## GRAPH

