



# CONSTRUCTION EQUIPMENT

SWO-069430 VOLVO L70H 624496 - DIESEL ENGINE



**Sample No:** VCP446746  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-069430



## SAMPLE INFORMATION

Sample Number	<b>VCP446746</b>	VCP389330	VCP380964	---
Sample Date	<b>06 Feb 2024</b>	18 Aug 2023	20 Dec 2022	---
Machine Hours	<b>1950</b>	1443	937	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

### SAIIA CONSTRUCTION LLC

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	12.8	12.5	---
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.9	10.3	---
Oxidation (PA)	%	<b>78</b>	78	84	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.2</b>	0.2	0.3	---
Nitration (PA)	%	<b>58</b>	55	75	---
Sulfation (PA)	%	<b>59</b>	60	65	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>6</b>	8	15	---
Sodium	ppm	<b>0</b>	<1	4	---
Potassium	ppm	<b>3</b>	2	2	---



## WEAR METALS

Iron	ppm	<b>47</b>	52	91	---
Copper	ppm	<b>2</b>	2	8	---
Lead	ppm	<b>0</b>	0	1	---
Tin	ppm	<b>&lt;1</b>	<1	3	---
Aluminum	ppm	<b>6</b>	6	46	---
Chromium	ppm	<b>1</b>	2	8	---
Molybdenum	ppm	<b>47</b>	44	44	---
Nickel	ppm	<b>0</b>	0	1	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>&lt;1</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	4	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1571</b>	1741	1529	---
Magnesium	ppm	<b>518</b>	512	569	---
Zinc	ppm	<b>902</b>	1162	1068	---
Phosphorus	ppm	<b>843</b>	971	877	---
Barium	ppm	<b>25</b>	2	0	---
Boron	ppm	<b>46</b>	44	44	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** SAIBIR  
**Unique No:** 10872019  
**Signed:** Don Baldrige  
**Report Date:** 12 Feb 2024



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## GRAPHS

