



# CONSTRUCTION EQUIPMENT

## 24929 VOLVO L220H 3130 - DIESEL ENGINE



**Sample No:** VCP455181  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24929



### SAMPLE INFORMATION

Sample Number	VCP455181	VCP420550	VCP405645	VCP425747
Sample Date	19 Mar 2024	10 Nov 2023	07 Aug 2023	19 May 2023
Machine Hours	12598	11602	10822	10086
Oil Hours	1000	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	12.7	12.4	11.6	12.9
Base Number (BN)	mg KOH/g	7.8	9.5	9.2	8.9
Oxidation (PA)	%	83	76	63	82



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	75	60	60	73
Sulfation (PA)	%	59	58	53	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.3	<1.0
Silicon	ppm	6	5	4	4
Sodium	ppm	3	4	0	2
Potassium	ppm	4	2	0	3



### WEAR METALS

Iron	ppm	12	5	5	7
Copper	ppm	2	1	0	2
Lead	ppm	2	<1	0	2
Tin	ppm	<1	<1	0	1
Aluminum	ppm	2	2	<1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	34	24	38
Nickel	ppm	0	<1	0	<1
Titanium	ppm	2	<1	1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	<1



### ADDITIVES

Calcium	ppm	1660	1629	2254	1794
Magnesium	ppm	525	476	429	531
Zinc	ppm	1156	1075	1317	1165
Phosphorus	ppm	975	900	1031	890
Barium	ppm	0	0	0	0
Boron	ppm	32	31	35	27

### 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:** VOLVO3387  
**Unique No:** 10940261  
**Signed:** Wes Davis  
**Report Date:** 22 Mar 2024



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## VOLVO GRAPHS

