



# CONSTRUCTION EQUIPMENT

TRANSYSTEMS VOLVO L220H 3068 - DIESEL ENGINE



**Sample No:** VCP406613  
**Oil Type:** MOBIL 15W40  
**Job No:** TRANSYSTEMS



## SAMPLE INFORMATION

Sample Number	VCP406613	VCP401917	VCP429837	VCP400162
Sample Date	20 Feb 2024	09 Jan 2024	01 Dec 2023	12 Oct 2023
Machine Hours	12905	12343	11878	11271
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	12.3	12.5	12.9	13.2
Base Number (BN)	mg KOH/g	6.1	8.9	8.7	9.1
Oxidation (PA)	%	54	57	60	61



## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.3
Nitration (PA)	%	58	57	59	58
Sulfation (PA)	%	48	51	53	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	8	3
Sodium	ppm	<1	2	3	1
Potassium	ppm	0	1	7	0



## WEAR METALS

Iron	ppm	3	3	28	6
Copper	ppm	1	<1	2	4
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	7	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	75	65	67	63
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	<1	0	0



## ADDITIVES

Calcium	ppm	1164	1109	1228	1136
Magnesium	ppm	935	998	868	981
Zinc	ppm	1186	1276	1203	1287
Phosphorus	ppm	1006	1085	1006	1040
Barium	ppm	0	0	0	0
Boron	ppm	12	7	18	6

## 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:** VOLVO1835  
**Unique No:** 10899517  
**Signed:** Wes Davis  
**Report Date:** 28 Feb 2024



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## GRAPHS

