



# CONSTRUCTION EQUIPMENT

## 33750 TRANSYSTEMS VOLVO L180H 4929 - DIESEL ENGINE



**Sample No:** VCP441750  
**Oil Type:** MOBIL 15W40  
**Job No:** 33750 TRANSYSTEMS



### SAMPLE INFORMATION

Sample Number	<b>VCP441750</b>	VCP406614	VCP406620	VCP368334
Sample Date	<b>29 Apr 2024</b>	07 Mar 2024	11 Jan 2024	22 Nov 2023
Machine Hours	<b>12300</b>	12019	11451	11038
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	11.7	12.0	12.3
Base Number (BN)	mg KOH/g	<b>9.1</b>	7.9	8.7	9.3
Oxidation (PA)	%	<b>53</b>	58	57	58



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.2	0.1	0.1
Nitration (PA)	%	<b>49</b>	64	58	55
Sulfation (PA)	%	<b>50</b>	51	51	52
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	3	3
Sodium	ppm	<b>&lt;1</b>	0	2	6
Potassium	ppm	<b>2</b>	1	<1	4



### WEAR METALS

Iron	ppm	<b>2</b>	5	3	10
Copper	ppm	<b>1</b>	1	<1	11
Lead	ppm	<b>1</b>	1	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	2	<1	5
Chromium	ppm	<b>&lt;1</b>	<1	0	0
Molybdenum	ppm	<b>57</b>	78	65	67
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>&lt;1</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1050</b>	1141	1133	1192
Magnesium	ppm	<b>842</b>	888	1024	834
Zinc	ppm	<b>1202</b>	1188	1319	1165
Phosphorus	ppm	<b>1049</b>	1017	1134	975
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>6</b>	17	9	24

### 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:** 11032236  
**Signed:** Wes Davis  
**Report Date:** 16 May 2024



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## GRAPHS

