



# CONSTRUCTION EQUIPMENT

134324 CITY OF IRVIN ALJON 30132 - DIESEL ENGINE



**Sample No:** VCP430611  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** 134324 CITY OF IRVIN



## SAMPLE INFORMATION

Sample Number	<b>VCP430611</b>	VCP408748	VCP399333	VCP384196
Sample Date	<b>22 Sep 2023</b>	04 May 2023	14 Mar 2023	18 Jan 2023
Machine Hours	<b>1241</b>	988	750	492
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	N/A	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	12.8	12.7	12.7
Base Number (BN)	mg KOH/g	<b>5.4</b>	6.1	8.0	8.1
Oxidation (PA)	%	<b>92</b>	77	76	70

## 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.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.1	0.1
Nitration (PA)	%	<b>77</b>	73	62	63
Sulfation (PA)	%	<b>70</b>	63	65	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>13</b>	12	15	17
Sodium	ppm	<b>5</b>	0	0	<1
Potassium	ppm	<b>9</b>	7	10	10



## WEAR METALS

Iron	ppm	<b>5</b>	5	6	7
Copper	ppm	<b>9</b>	9	3	3
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	1	1
Aluminum	ppm	<b>4</b>	2	3	3
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>126</b>	124	114	116
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1584</b>	1614	1427	1439
Magnesium	ppm	<b>744</b>	727	621	662
Zinc	ppm	<b>939</b>	909	866	935
Phosphorus	ppm	<b>748</b>	732	700	762
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>159</b>	168	246	242

**Depot:** VOLVO0015  
**Unique No:** 10683277  
**Signed:** Wes Davis  
**Report Date:** 07 Oct 2023



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## GRAPHS

