



# CONSTRUCTION EQUIPMENT

## VOLVO G940 6550 - DIESEL ENGINE



**Sample No:** VCE251168  
**Oil Type:** MYSTIK JT-8 SYN SUPER HD 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCE251168</b>	VCE250070	VC423375	VCP240690
Sample Date	<b>11 Jan 2024</b>	04 Apr 2023	30 Jun 2021	27 Aug 2020
Machine Hours	<b>6925</b>	6708	6131	5877
Oil Hours	<b>217</b>	307	158	273
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**LIPSCOMB COUNTY**  
P.O. BOX 144  
LIPSCOMB, TX  
US 79056  
Contact: MARK BERNIE  
lipscombco1@gmail.com  
T: (806)862-5455  
F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>14.7</b>	14.4	14.7	14.7
Base Number (BN)	mg KOH/g	<b>9.3</b>	8.7	---	---
Oxidation (PA)	%	<b>56</b>	54	61	59

### 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>0.1</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>48</b>	48	56	53
Sulfation (PA)	%	<b>50</b>	46	55	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	2	3	4
Sodium	ppm	<b>&lt;1</b>	1	<1	2
Potassium	ppm	<b>2</b>	<1	0	<1



### WEAR METALS

Iron	ppm	<b>8</b>	5	3	5
Copper	ppm	<b>2</b>	<1	<1	1
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	2	<1
Molybdenum	ppm	<b>62</b>	65	60	68
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1144</b>	1119	1177	1045
Magnesium	ppm	<b>996</b>	1045	1078	980
Zinc	ppm	<b>1318</b>	1356	1297	1229
Phosphorus	ppm	<b>1083</b>	1124	1142	1034
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	0	3

**Depot:** LIPLIP  
**Unique No:** 10833215  
**Signed:** Wes Davis  
**Report Date:** 18 Jan 2024



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## VOLVO GRAPHS

