



# CONSTRUCTION EQUIPMENT

SW1025599 BALCONES VOLVO L120H 633369 - DIESEL ENGINE



**Sample No:** VCP423048  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1025599 BALCONES



## SAMPLE INFORMATION

Sample Number	<b>VCP423048</b>	VCP412436	VCP406915	---
Sample Date	<b>20 Oct 2023</b>	21 Aug 2023	24 May 2023	---
Machine Hours	<b>1954</b>	1436	581	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	---

**ARNOLD MACHINERY COMPANY**  
 4323 EAST WINSLOW AVENUE  
 PHOENIX, AZ  
 US 85040  
 Contact: RANDY PRZEKURAT  
 randyp@arnoldmachinery.com  
 T:  
 F: (602)414-1904



## OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.3	12.2	---
Base Number (BN)	mg KOH/g	<b>8.2</b>	7.1	9.1	---
Oxidation (PA)	%	<b>86</b>	109	87	---

## 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 acceptable for the time in service.



## CONTAMINATION

Soot %	%	<b>0.3</b>	0.4	0.3	---
Nitration (PA)	%	<b>60</b>	69	53	---
Sulfation (PA)	%	<b>62</b>	70	63	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	1.6	---
Silicon	ppm	<b>20</b>	29	24	---
Sodium	ppm	<b>2</b>	5	5	---
Potassium	ppm	<b>&lt;1</b>	4	4	---



## WEAR METALS

Iron	ppm	<b>10</b>	30	31	---
Copper	ppm	<b>11</b>	34	18	---
Lead	ppm	<b>4</b>	8	4	---
Tin	ppm	<b>2</b>	4	3	---
Aluminum	ppm	<b>4</b>	12	47	---
Chromium	ppm	<b>&lt;1</b>	2	4	---
Molybdenum	ppm	<b>48</b>	46	52	---
Nickel	ppm	<b>&lt;1</b>	<1	<1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>&lt;1</b>	<1	<1	---
Manganese	ppm	<b>&lt;1</b>	2	3	---
Vanadium	ppm	<b>0</b>	<1	0	---



## ADDITIVES

Calcium	ppm	<b>1132</b>	1586	1840	---
Magnesium	ppm	<b>777</b>	605	771	---
Zinc	ppm	<b>1130</b>	1182	1428	---
Phosphorus	ppm	<b>918</b>	920	1174	---
Barium	ppm	<b>0</b>	0	2	---
Boron	ppm	<b>11</b>	20	62	---

**Depot:** VOLVO6174  
**Unique No:** 10714104  
**Signed:** Don Baldrige  
**Report Date:** 30 Oct 2023



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## GRAPHS

