



CONSTRUCTION EQUIPMENT

SW1022432 BALCONES VOLVO L120H 633369 - DIESEL ENGINE



Sample No: VCP412436
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1022432 BALCONES



SAMPLE INFORMATION

Sample Number	VCP412436	VCP406915	---	---
Sample Date	21 Aug 2023	24 May 2023	---	---
Machine Hours	1436	581	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

ARNOLD MACHINERY COMPANY
 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	■ 12.2	---	---
Base Number (BN)	mg KOH/g	■ 7.1	■ 9.1	---	---
Oxidation (PA)	%	109	87	---	---

Diagnosis



CONTAMINATION

Soot %	%	■ 0.4	■ 0.3	---	---
Nitration (PA)	%	69	53	---	---
Sulfation (PA)	%	70	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.6	---	---
Silicon	ppm	▲ 29	■ 24	---	---
Sodium	ppm	■ 5	■ 5	---	---
Potassium	ppm	■ 4	■ 4	---	---



WEAR METALS

Iron	ppm	■ 30	■ 31	---	---
Copper	ppm	▲ 34	■ 18	---	---
Lead	ppm	■ 8	■ 4	---	---
Tin	ppm	■ 4	■ 3	---	---
Aluminum	ppm	▲ 12	■ 47	---	---
Chromium	ppm	■ 2	■ 4	---	---
Molybdenum	ppm	■ 46	■ 52	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	■ <1	■ <1	---	---
Silver	ppm	■ <1	■ <1	---	---
Manganese	ppm	■ 2	■ 3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	■ 1586	■ 1840	---	---
Magnesium	ppm	■ 605	■ 771	---	---
Zinc	ppm	■ 1182	■ 1428	---	---
Phosphorus	ppm	■ 920	■ 1174	---	---
Barium	ppm	■ 0	■ 2	---	---
Boron	ppm	■ 20	■ 62	---	---

Depot: VOLVO6174
Unique No: 10622181
Signed: Sean Felton
Report Date: 29 Aug 2023



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GRAPHS

