



CONSTRUCTION EQUIPMENT

D12523 HALQUIST VOLVO L110E 61016 - DIESEL ENGINE



Sample No: VCP419174
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: D12523 HALQUIST



SAMPLE INFORMATION

Sample Number	VCP419174	---	---	---
Sample Date	12 Jul 2023	---	---	---
Machine Hours	13308	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---

ARING EQUIPMENT COMPANY INC - MAIN (MILWAUKEE)
 13001 W SILVERE SPRING DR
 BUTLER, WI
 US 53007
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 T: (262)282-0715
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	---	---	---
Base Number (BN)	mg KOH/g	■ 9.2	---	---	---
Oxidation (PA)	%	■ 63	---	---	---

Diagnosis



CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	■ 68	---	---	---
Sulfation (PA)	%	■ 54	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 16	---	---	---
Copper	ppm	■ 1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 60	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1334	---	---	---
Magnesium	ppm	■ 1009	---	---	---
Zinc	ppm	■ 1374	---	---	---
Phosphorus	ppm	■ 1102	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 7	---	---	---

Depot: VOLVO0069
Unique No: 10562280
Signed: Don Baldrige
Report Date: 19 Jul 2023



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GRAPHS

