



CONSTRUCTION EQUIPMENT

VOLVO L220E 2569 - DIESEL ENGINE



Sample No: VCP420007
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP420007	VC118633	---	---
Sample Date	03 Jul 2023	05 Jul 2005	---	---
Machine Hours	26442	3532	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

EARTHSOURCE MINING/BABCOCK RANCH
 13500 SR 31
 PUNTA GORDA, FL
 US 33902
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	11.8	14.49	---	---
Base Number (BN)	mg KOH/g	7.1	---	---	---
Oxidation (PA)	%	71	45	---	---

T:
F:

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

Soot %	%	0.8	1.7	---	---
Nitration (PA)	%	78	10	---	---
Sulfation (PA)	%	65	40	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	2	---	---
Sodium	ppm	0	15	---	---
Potassium	ppm	2	0	---	---



WEAR METALS

Iron	ppm	20	13	---	---
Copper	ppm	3	<1	---	---
Lead	ppm	6	<1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	3	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	84	18	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1487	2123	---	---
Magnesium	ppm	345	226	---	---
Zinc	ppm	1128	1098	---	---
Phosphorus	ppm	978	975	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	251	8	---	---

Depot: EARPUN
Unique No: 10551291
Signed: Wes Davis
Report Date: 12 Jul 2023



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GRAPHS

