



CONSTRUCTION EQUIPMENT

SWA518493-40 VOLVO L90H 625935 - DIESEL ENGINE



Sample No: VCP428571
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA518493-40



SAMPLE INFORMATION

Sample Number	VCP428571	VCP332052	VCP332152	---
Sample Date	19 Mar 2024	27 Apr 2022	28 Dec 2021	---
Machine Hours	3996	1030	504	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

IAA - INSURANCE AUTO AUCTIONS - ROCK TAVERN
 39 STONE CASTLE RD
 ROCK TAVERN, NY
 US 12575
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	12.7	13.9	12.8	---
Base Number (BN)	mg KOH/g	10.3	10.3	11.3	---
Oxidation (PA)	%	84	69	80	---

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

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.1	0.3	---
Nitration (PA)	%	58	38	61	---
Sulfation (PA)	%	61	58	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	9	14	---
Sodium	ppm	2	<1	4	---
Potassium	ppm	0	<1	0	---

WEAR METALS

Iron	ppm	8	2	33	---
Copper	ppm	<1	<1	8	---
Lead	ppm	0	<1	1	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	2	2	29	---
Chromium	ppm	<1	<1	5	---
Molybdenum	ppm	41	45	39	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	4	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	1859	1600	1445	---
Magnesium	ppm	542	521	557	---
Zinc	ppm	1216	1132	1115	---
Phosphorus	ppm	1025	995	913	---
Barium	ppm	0	0	0	---
Boron	ppm	47	124	50	---

Depot: INSROC
Unique No: 11003249
Signed: Wes Davis
Report Date: 29 Apr 2024



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GRAPHS

