



CONSTRUCTION EQUIPMENT

VOLVO L90H 623623 - DIESEL ENGINE



Sample No: VCP442693
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP442693	VCP376056	VCP422033	VCP343813
Sample Date	02 Feb 2024	27 Nov 2023	07 Jun 2023	25 Oct 2021
Machine Hours	13435	13165	12518	9535
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	12.7	12.4	12.4	13.5
Base Number (BN)	mg KOH/g	9.9	9.9	10.3	---
Oxidation (PA)	%	74	75	62	77



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.6	0.5	0.4
Nitration (PA)	%	51	63	65	65
Sulfation (PA)	%	59	58	54	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	4
Sodium	ppm	2	4	2	2
Potassium	ppm	0	0	1	1



WEAR METALS

Iron	ppm	4	7	8	7
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	6	3	3
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	45	75	49	37
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1714	1907	1507	1724
Magnesium	ppm	528	628	618	442
Zinc	ppm	1135	1350	1000	1111
Phosphorus	ppm	974	1113	846	872
Barium	ppm	0	0	0	0
Boron	ppm	50	35	41	26

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.

Depot: VOLVO0090
Unique No: 10861595
Signed: Sean Felton
Report Date: 06 Feb 2024



CONSTRUCTION EQUIPMENT



GRAPHS

