



CONSTRUCTION EQUIPMENT

VOLVO L90H 625045 - DIESEL ENGINE



Sample No: VCP449208
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449208	VCP410274	VCP360671	VCP332162
Sample Date	14 Feb 2024	28 Mar 2023	12 Aug 2022	30 Nov 2021
Machine Hours	3471	2513	2015	1543
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: PM Services
PMServices@ripaconstruction.com
T:
F:



OIL CONDITION

Visc @ 100°C	cSt	13.7	13.5	13.0	12.8
Base Number (BN)	mg KOH/g	9.9	10.3	11.2	10.4
Oxidation (PA)	%	79	82	88	84

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	NEG
Soot %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	69	74	83	82
Sulfation (PA)	%	58	61	65	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	9	9	9
Sodium	ppm	2	2	<1	4
Potassium	ppm	16	2	0	2



WEAR METALS

Iron	ppm	15	13	17	17
Copper	ppm	<1	1	1	2
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	11	10	11	14
Chromium	ppm	1	<1	1	2
Molybdenum	ppm	37	43	46	48
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	10	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1956	1735	1629	1618
Magnesium	ppm	477	539	515	583
Zinc	ppm	1226	1164	1047	1134
Phosphorus	ppm	1009	991	874	953
Barium	ppm	0	2	0	<1
Boron	ppm	45	36	25	19

Depot: RIPTAM
Unique No: 10995440
Signed: Wes Davis
Report Date: 25 Apr 2024



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VOLVO GRAPHS

