



CONSTRUCTION EQUIPMENT

VOLVO L90H 623836 - DIESEL ENGINE



Sample No: VCP429338
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP429338	VCP395723	VCP354116	VCP330282
Sample Date	01 Feb 2024	02 Feb 2023	31 Aug 2022	29 Mar 2022
Machine Hours	6562	6023	5508	4970
Oil Hours	0	500	500	500
Oil Changed	N/A	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	12.9	13.1	13.1	13.1
Base Number (BN)	mg KOH/g	9.3	10.4	11.6	11.4
Oxidation (PA)	%	80	80	88	83

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 %	%	0.4	0.3	0.3	0.2
Nitration (PA)	%	69	65	74	66
Sulfation (PA)	%	59	59	64	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	8	7
Sodium	ppm	0	2	2	2
Potassium	ppm	2	0	<1	0



WEAR METALS

Iron	ppm	15	8	10	8
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	<1	0	1
Tin	ppm	0	<1	<1	1
Aluminum	ppm	13	9	6	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	48	43	42	47
Nickel	ppm	0	<1	0	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1586	1623	1729	1727
Magnesium	ppm	519	519	507	553
Zinc	ppm	1108	1111	1145	1113
Phosphorus	ppm	870	899	955	992
Barium	ppm	7	0	0	0
Boron	ppm	32	35	27	41

Depot: RIPTAM
Unique No: 10863251
Signed: Don Baldrige
Report Date: 07 Feb 2024



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GRAPHS

