



CONSTRUCTION EQUIPMENT

VOLVO L90H 623836 - DIESEL ENGINE



Sample No: VCP440125
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP440125	VCP429338	VCP395723	VCP354116
Sample Date	18 Jun 2024	01 Feb 2024	02 Feb 2023	31 Aug 2022
Machine Hours	7054	6562	6023	5508
Oil Hours	0	0	500	500
Oil Changed	Changed	N/A	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	13.1	12.9	13.1	13.1
Base Number (BN)	mg KOH/g	10.2	9.3	10.4	11.6
Oxidation (PA)	%	81	80	80	88

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	0.4	0.3	0.3
Nitration (PA)	%	67	69	65	74
Sulfation (PA)	%	61	59	59	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	6	5	8
Sodium	ppm	2	0	2	2
Potassium	ppm	0	2	0	<1



WEAR METALS

Iron	ppm	16	15	8	10
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	8	13	9	6
Chromium	ppm	3	<1	<1	<1
Molybdenum	ppm	43	48	43	42
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1880	1586	1623	1729
Magnesium	ppm	538	519	519	507
Zinc	ppm	1207	1108	1111	1145
Phosphorus	ppm	1026	870	899	955
Barium	ppm	<1	7	0	0
Boron	ppm	31	32	35	27

Depot: RIPTAM
Unique No: 11090616
Signed: Wes Davis
Report Date: 25 Jun 2024



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VOLVO GRAPHS

