



CONSTRUCTION EQUIPMENT

VOLVO L90H 625035 - DIESEL ENGINE



Sample No: VCP411596
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP411596	VCP395754	VCP364492	VCP332722
Sample Date	21 Jul 2023	30 Jan 2023	01 Sep 2022	23 Feb 2022
Machine Hours	2385	3010	2541	2003
Oil Hours	0	500	500	1500
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	13.1	13.1	13.3	13.1
Base Number (BN)	mg KOH/g	10.7	10.3	11.9	11.7
Oxidation (PA)	%	80	82	91	86

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

Soot %	%	0.4	0.5	0.6	0.5
Nitration (PA)	%	64	72	84	80
Sulfation (PA)	%	60	60	66	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	7	9	7
Sodium	ppm	2	4	1	2
Potassium	ppm	2	2	2	2



WEAR METALS

Iron	ppm	13	15	19	20
Copper	ppm	<1	2	1	2
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	9	12	13
Chromium	ppm	2	2	1	2
Molybdenum	ppm	44	43	43	39
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1731	1736	1721	1676
Magnesium	ppm	559	540	519	486
Zinc	ppm	1227	1127	1146	1020
Phosphorus	ppm	990	931	955	893
Barium	ppm	0	0	0	0
Boron	ppm	35	41	19	25

Depot: RIPTAM
Unique No: 10605789
Signed: Wes Davis
Report Date: 17 Aug 2023



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GRAPHS

