



CONSTRUCTION EQUIPMENT

VOLVO L90H 625035 - DIESEL ENGINE



Sample No: VCP444265
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP444265	VCP411596	VCP395754	VCP364492
Sample Date	15 Feb 2024	21 Jul 2023	30 Jan 2023	01 Sep 2022
Machine Hours	3984	2385	3010	2541
Oil Hours	0	0	500	500
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
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 US 33619
 Contact: PM Services
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	13.1	13.3
Base Number (BN)	mg KOH/g	10.0	10.7	10.3	11.9
Oxidation (PA)	%	82	80	82	91

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 %	%	0.5	0.4	0.5	0.6
Nitration (PA)	%	71	64	72	84
Sulfation (PA)	%	60	60	60	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	10	7	9
Sodium	ppm	2	2	4	1
Potassium	ppm	3	2	2	2

WEAR METALS

Iron	ppm	16	13	15	19
Copper	ppm	2	<1	2	1
Lead	ppm	<1	<1	<1	0
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	9	7	9	12
Chromium	ppm	2	2	2	1
Molybdenum	ppm	47	44	43	43
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1545	1731	1736	1721
Magnesium	ppm	480	559	540	519
Zinc	ppm	1093	1227	1127	1146
Phosphorus	ppm	911	990	931	955
Barium	ppm	1	0	0	0
Boron	ppm	26	35	41	19

Depot: RIPTAM
Unique No: 10900469
Signed: Wes Davis
Report Date: 28 Feb 2024



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VOLVO GRAPHS

