



CONSTRUCTION EQUIPMENT

VOLVO L90H 625060 - DIESEL ENGINE



Sample No: VCP437044
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437044	VCP411987	VCP326047	VCP301521
Sample Date	27 Feb 2024	25 Aug 2023	10 Sep 2021	11 Feb 2021
Machine Hours	3331	2836	0	914
Oil Hours	0	0	1500	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	14.5	13.4	13.3	13.0
Base Number (BN)	mg KOH/g	8.4	9.5	---	---
Oxidation (PA)	%	92	83	84	82

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	0.103
Soot %	%	0.6	0.5	0.8	0.5
Nitration (PA)	%	107	77	87	76
Sulfation (PA)	%	65	61	63	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	9	9
Sodium	ppm	3	3	3	0
Potassium	ppm	1	2	3	4



WEAR METALS

Iron	ppm	26	20	28	29
Copper	ppm	3	2	2	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	1	<1	2	2
Aluminum	ppm	10	6	19	14
Chromium	ppm	2	3	2	3
Molybdenum	ppm	44	52	47	47
Nickel	ppm	0	<1	0	0
Titanium	ppm	18	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	1	1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1926	1961	1660	1772
Magnesium	ppm	573	600	596	576
Zinc	ppm	1308	1289	1194	1129
Phosphorus	ppm	1104	1030	981	1047
Barium	ppm	0	0	0	<1
Boron	ppm	25	26	17	22

Depot: RIPTAM
Unique No: 11018414
Signed: Wes Davis
Report Date: 09 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

