



CONSTRUCTION EQUIPMENT

VOLVO L90H 626088 - DIESEL ENGINE



Sample No: VCP444697
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP444697	VCP449098	VCP392751	VCP396934
Sample Date	24 Apr 2024	25 Jan 2024	07 Jun 2023	10 Feb 2023
Machine Hours	0	4413	3173	2420
Oil Hours	0	0	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OLDCASTLE LAWN AND GARDEN
 2427 RWS RANCH RD
 DAVENPORT, FL
 US 33837
 Contact: DAVID ORTIZ
 david.ortiz@oldcastle.com
 T: (800)833-2984
 F: (863)421-1776



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	12.7	12.8
Base Number (BN)	mg KOH/g	10.0	10.3	9.6	10.6
Oxidation (PA)	%	79	81	83	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	NEG
Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	57	58	60	64
Sulfation (PA)	%	59	61	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	5	8
Sodium	ppm	3	0	2	3
Potassium	ppm	2	1	0	0



WEAR METALS

Iron	ppm	9	10	14	46
Copper	ppm	<1	<1	<1	3
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	2	<1	4
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	55	42	45	39
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	2
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	2117	1604	1641	1560
Magnesium	ppm	657	528	520	486
Zinc	ppm	1438	1117	1065	1000
Phosphorus	ppm	1326	822	880	825
Barium	ppm	1	5	0	0
Boron	ppm	67	34	30	27

Depot: GREDAVFL
Unique No: 11057077
Signed: Don Baldrige
Report Date: 31 May 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

