



CONSTRUCTION EQUIPMENT

SWA633048 VOLVO L90H 624516 - DIESEL ENGINE



Sample No: VCP434311
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA633048



SAMPLE INFORMATION

Sample Number	VCP434311	JR412362	VCP361357	VCP268118
Sample Date	07 Nov 2023	14 Aug 2023	23 Feb 2022	24 Mar 2020
Machine Hours	11418	11024	7940	3082
Oil Hours	0	0	384	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

FORESTRY RESOURCES

4353 MICHIGAN LINK
 FORT MYERS, FL
 US 33916
 Contact: COREY MUELLER



OIL CONDITION

Visc @ 100°C	cSt	14.0	15.2	13.4	13.5
Base Number (BN)	mg KOH/g	10.3	9.1	8.4	---
Oxidation (PA)	%	88	104	71	76

T: (239)872-1856
 F:

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 %	%	1.1	2.2	0.8	0.5
Nitration (PA)	%	83	119	85	68
Sulfation (PA)	%	66	77	62	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	5	6
Sodium	ppm	1	3	1	4
Potassium	ppm	0	1	1	0



WEAR METALS

Iron	ppm	17	30	16	13
Copper	ppm	0	2	1	<1
Lead	ppm	0	<1	<1	1
Tin	ppm	<1	1	1	0
Aluminum	ppm	5	11	8	5
Chromium	ppm	<1	2	1	1
Molybdenum	ppm	53	57	63	38
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1726	1924	2007	1751
Magnesium	ppm	568	660	492	591
Zinc	ppm	1229	1348	1382	1099
Phosphorus	ppm	997	1082	1162	951
Barium	ppm	0	0	0	0
Boron	ppm	25	17	12	33

Depot: FORFORFL
Unique No: 10740609
Signed: Wes Davis
Report Date: 15 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

