



CONSTRUCTION EQUIPMENT

621980 VOLVO L90H 624448 - DIESEL ENGINE



Sample No: VCP430827
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621980



SAMPLE INFORMATION

Sample Number	VCP430827	VCP427122	VCP375124	---
Sample Date	31 Oct 2023	24 Jun 2023	14 Jul 2022	---
Machine Hours	11390	10718	9108	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

FORESTRY RESOURCES

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



OIL CONDITION

Visc @ 100°C	cSt	13.8	15.0	13.6	---
Base Number (BN)	mg KOH/g	9.8	7.7	11.7	---
Oxidation (PA)	%	92	97	90	---

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 %	%	0.5	1.1	0.4	---
Nitration (PA)	%	83	105	73	---
Sulfation (PA)	%	64	70	66	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	5	---
Sodium	ppm	4	3	2	---
Potassium	ppm	0	2	0	---



WEAR METALS

Iron	ppm	20	37	12	---
Copper	ppm	2	2	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	8	15	4	---
Chromium	ppm	<1	2	<1	---
Molybdenum	ppm	47	48	48	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1735	2187	1650	---
Magnesium	ppm	561	525	521	---
Zinc	ppm	1270	1383	1122	---
Phosphorus	ppm	962	1078	879	---
Barium	ppm	0	0	0	---
Boron	ppm	19	17	30	---

Depot: FORFORTFL
Unique No: 10726075
Signed: Wes Davis
Report Date: 06 Nov 2023



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GRAPHS

