



CONSTRUCTION EQUIPMENT

12621 METAL TECH VOLVO L180H 5334 - DIESEL ENGINE



Sample No: VCP454442
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 12621 METAL TECH



SAMPLE INFORMATION

Sample Number	VCP454442	VCP445523	---	---
Sample Date	06 May 2024	19 Mar 2024	---	---
Machine Hours	9379	9080	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



HOFFMAN EQUIPMENT - LIONVILLE
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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	---	---
Base Number (BN)	mg KOH/g	6.8	6.4	---	---
Oxidation (PA)	%	43	45	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	57	58	---	---
Sulfation (PA)	%	47	50	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	3	---	---
Sodium	ppm	3	4	---	---
Potassium	ppm	5	2	---	---



WEAR METALS

Iron	ppm	6	4	---	---
Copper	ppm	3	<1	---	---
Lead	ppm	3	0	---	---
Tin	ppm	3	0	---	---
Aluminum	ppm	4	1	---	---
Chromium	ppm	2	0	---	---
Molybdenum	ppm	10	4	---	---
Nickel	ppm	2	0	---	---
Titanium	ppm	27	<1	---	---
Silver	ppm	3	0	---	---
Manganese	ppm	2	0	---	---
Vanadium	ppm	3	<1	---	---



ADDITIVES

Calcium	ppm	1951	2359	---	---
Magnesium	ppm	191	62	---	---
Zinc	ppm	1052	1102	---	---
Phosphorus	ppm	901	770	---	---
Barium	ppm	1	0	---	---
Boron	ppm	46	4	---	---

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 acceptable for the time in service.

Depot: VOLVO8879
Unique No: 11033707
Signed: Don Baldrige
Report Date: 20 May 2024



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GRAPHS

