



CONSTRUCTION EQUIPMENT

631198 - DIESEL ENGINE



Sample No: VCP382329
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP382329	VCP347495	---	---
Sample Date	23 Jun 2023	01 Feb 2022	---	---
Machine Hours	10511	8625	---	---
Oil Hours	500	500	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



GREAT WEST EQUIPMENT
 1600 KOSMINA ROAD, 123 L&A CROSS RD
 VERNON, BC
 CA V1T 8T2
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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.9	---	---
Oxidation (PA)	%	91	33	---	---



CONTAMINATION

Soot %	%	0.4	0	---	---
Nitration (PA)	%	79	33	---	---
Sulfation (PA)	%	65	41	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	8	---	---
Sodium	ppm	10	2	---	---
Potassium	ppm	<1	<1	---	---



WEAR METALS

Iron	ppm	13	17	---	---
Copper	ppm	1	2	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	3	4	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	43	42	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1745	1661	---	---
Magnesium	ppm	540	546	---	---
Zinc	ppm	1121	1176	---	---
Phosphorus	ppm	1020	1032	---	---
Barium	ppm	0	0	---	---
Boron	ppm	32	33	---	---

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 condition of the oil is acceptable for the time in service.

Depot: MARVER
Unique No: 5604806
Signed: Wes Davis
Report Date: 04 Jul 2023



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GRAPHS

