



CONSTRUCTION EQUIPMENT

633435 MOSAIC TAKEUCHI TB260CR 126107792 - DIESEL ENGINE



Sample No: VCP436021
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633435 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP436021	VCP417390	---	---
Sample Date	14 Nov 2023	27 Jun 2023	---	---
Machine Hours	558	284	---	---
Oil Hours	200	284	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	▲ 10.9	---	---
Base Number (BN)	mg KOH/g	█ 9.3	█ 7.0	---	---
Oxidation (PA)	%	81	58	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.9	█ 0.7	---	---
Nitration (PA)	%	77	79	---	---
Sulfation (PA)	%	64	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.1	---	---
Silicon	ppm	█ 11	█ 42	---	---
Sodium	ppm	█ 5	█ 19	---	---
Potassium	ppm	█ 37	▲ 226	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

WEAR METALS

Iron	ppm	█ 32	█ 59	---	---
Copper	ppm	█ 43	█ 157	---	---
Lead	ppm	█ 2	█ 3	---	---
Tin	ppm	█ 1	█ <1	---	---
Aluminum	ppm	█ 4	█ 4	---	---
Chromium	ppm	█ 1	█ 2	---	---
Molybdenum	ppm	█ 66	█ 187	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1738	█ 2452	---	---
Magnesium	ppm	█ 431	█ 25	---	---
Zinc	ppm	█ 1064	█ 827	---	---
Phosphorus	ppm	█ 826	661	---	---
Barium	ppm	█ 0	█ 3	---	---
Boron	ppm	█ 36	█ 198	---	---

Depot: VOLVO0093
Unique No: 10764772
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

