



CONSTRUCTION EQUIPMENT

SPM595208 CATERPILLAR D8T KPZO1336 - DIESEL ENGINE



Sample No: VCP420674
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM595208



SAMPLE INFORMATION

Sample Number	VCP420674	VCP400810	---	---
Sample Date	25 Aug 2023	21 Feb 2023	---	---
Machine Hours	9433	7449	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	MARGINAL	---	---

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 5000 INDUSTRIAL HWY
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	10.9	---	---
Base Number (BN)	mg KOH/g	█ 8.2	█ 10.1	---	---
Oxidation (PA)	%	55	73	---	---

CONTAMINATION

Soot %	%	█ 0.8	█ 0.8	---	---
Nitration (PA)	%	60	73	---	---
Sulfation (PA)	%	56	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 3.2	---	---
Silicon	ppm	█ 4	█ 13	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ <1	█ 2	---	---

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.

WEAR METALS

Iron	ppm	█ 46	█ 34	---	---
Copper	ppm	█ 6	█ 11	---	---
Lead	ppm	█ 0	█ 1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 1	█ 2	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 75	█ 37	---	---
Nickel	ppm	█ 1	█ 0	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1472	█ 1609	---	---
Magnesium	ppm	█ 574	█ 455	---	---
Zinc	ppm	█ 1321	█ 1051	---	---
Phosphorus	ppm	█ 1071	█ 857	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 236	█ 61	---	---

Depot: VOLVO8885
Unique No: 10632429
Signed: Wes Davis
Report Date: 05 Sep 2023



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GRAPHS

