



CONSTRUCTION EQUIPMENT

SWA412025 HITACHI ZW370-6 ZW3706-005216 - DIESEL ENGINE



Sample No: VCP417505
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA412025



SAMPLE INFORMATION

Sample Number	VCP417505	---	---	---
Sample Date	10 Jan 2024	---	---	---
Machine Hours	4098	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: DAVE ENG
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.5	---	---	---
Base Number (BN)	mg KOH/g	■ 7.3	---	---	---
Oxidation (PA)	%	74	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 4.0	---	---	---
Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 11	---	---	---
Copper	ppm	■ 7	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 50	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 880	---	---	---
Magnesium	ppm	■ 857	---	---	---
Zinc	ppm	■ 1075	---	---	---
Phosphorus	ppm	■ 852	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

Depot: VOLVO8885
Unique No: 10858566
Signed: Jonathan Hester
Report Date: 05 Feb 2024



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GRAPHS

