



CONSTRUCTION EQUIPMENT

SPM622031 GENIE Z45/25 Z452515A-53624 - DIESEL ENGINE



Sample No: VCP432943
Oil Type: VALVOLINE 10W30
Job No: SPM622031



SAMPLE INFORMATION

Sample Number	VCP432943	---	---	---
Sample Date	01 Nov 2023	---	---	---
Machine Hours	2477	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	▲ 8.7	---	---	---
Base Number (BN)	mg KOH/g	■ 4.0	---	---	---
Oxidation (PA)	%	70	---	---	---

Diagnosis

The oil 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. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0	---	---	---
Nitration (PA)	%	94	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.1	---	---	---
Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---

WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 133	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	7	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1255	---	---	---
Magnesium	ppm	■ 447	---	---	---
Zinc	ppm	▲ 777	---	---	---
Phosphorus	ppm	▲ 592	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 39	---	---	---

Depot: VOLVO8501
Unique No: 10751270
Signed: Wes Davis
Report Date: 22 Nov 2023



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GRAPHS

