



CONSTRUCTION EQUIPMENT

PRINCE TAKEUCHI TB290 185 109833 - DIESEL ENGINE



Sample No: VCP445510
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: PRINCE



SAMPLE INFORMATION

Sample Number	VCP445510	---	---	---
Sample Date	20 Apr 2024	---	---	---
Machine Hours	1072	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 9.8	---	---	---
Base Number (BN)	mg KOH/g	■ 6.5	---	---	---
Oxidation (PA)	%	65	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. Test for glycol is negative. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.8	---	---	---
Nitration (PA)	%	95	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	▲ 41	---	---	---
Sodium	ppm	■ 14	---	---	---
Potassium	ppm	▲ 177	---	---	---



WEAR METALS

Iron	ppm	■ 76	---	---	---
Copper	ppm	■ 127	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 8	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 143	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2594	---	---	---
Magnesium	ppm	■ 13	---	---	---
Zinc	ppm	■ 866	---	---	---
Phosphorus	ppm	■ 708	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 111	---	---	---

Depot: VOLVO0093
Unique No: 11044012
Signed: Jonathan Hester
Report Date: 28 May 2024



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GRAPHS

