



CONSTRUCTION EQUIPMENT

716614 SOUTHLAND TAKEUCHI TB235 604814 - DIESEL ENGINE



Sample No: VCP454530
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 716614 SOUTHLAND



SAMPLE INFORMATION

Sample Number	VCP454530	VCP454915	---	---
Sample Date	17 May 2024	17 May 2024	---	---
Machine Hours	529	581	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
9601 BOGGY CREEK RD
ORLANDO, FL
US 32824
Contact: Robert LaPlante
robert.laplante@altg.com
T: (407)508-9736
F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	● 10.7	▲ 9.9	---	---
Base Number (BN)	mg KOH/g	■ 11.2	■ 12.1	---	---
Oxidation (PA)	%	46	43	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. 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	NEG	---	---
Soot %	%	■ 0.5	■ 0.4	---	---
Nitration (PA)	%	73	69	---	---
Sulfation (PA)	%	52	49	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.2	■ 0.3	---	---
Silicon	ppm	■ 56	■ 66	---	---
Sodium	ppm	■ 20	■ 30	---	---
Potassium	ppm	■ 4	■ 2	---	---



WEAR METALS

Iron	ppm	■ 89	■ 94	---	---
Copper	ppm	■ 16	■ 15	---	---
Lead	ppm	■ 6	■ 4	---	---
Tin	ppm	■ 1	■ 1	---	---
Aluminum	ppm	■ 6	■ 7	---	---
Chromium	ppm	■ 2	■ <1	---	---
Molybdenum	ppm	■ 102	■ 116	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	■ <1	■ <1	---	---
Silver	ppm	■ 1	■ <1	---	---
Manganese	ppm	■ 3	■ 3	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	■ 3880	■ 4117	---	---
Magnesium	ppm	■ 37	■ 20	---	---
Zinc	ppm	■ 1322	■ 1410	---	---
Phosphorus	ppm	■ 1031	■ 1105	---	---
Barium	ppm	■ 14	■ 15	---	---
Boron	ppm	■ 33	■ 41	---	---

Depot: VOLVO0096
Unique No: 11048573
Signed: Sean Felton
Report Date: 30 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

