



CONSTRUCTION EQUIPMENT

465332 TAKEUCHI TL12R2 412 105337 - DIESEL ENGINE



Sample No: VCP455204
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 465332



SAMPLE INFORMATION

Sample Number	VCP455204	---	---	---
Sample Date	29 Apr 2024	---	---	---
Machine Hours	247	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY
5151 DR MARTIN LUTHER KING BLVD
FORT MYERS, FL
US 33905
Contact: TODD LARK
tlark@altaequipfl.com
T:
F: (239)481-3302



OIL CONDITION

Visc @ 100°C	cSt	● 9.1	---	---	---
Base Number (BN)	mg KOH/g	■ 10.0	---	---	---
Oxidation (PA)	%	■ 37	---	---	---

Diagnosis

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. Sodium and/or potassium levels are high. Fuel content negligible. 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 %	%	■ 0.5	---	---	---
Nitration (PA)	%	■ 74	---	---	---
Sulfation (PA)	%	■ 43	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 1.9	---	---	---
Silicon	ppm	■ 25	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	▲ 140	---	---	---



WEAR METALS

Iron	ppm	■ 45	---	---	---
Copper	ppm	■ 25	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 148	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	■ 0	---	---	---



ADDITIVES

Calcium	ppm	■ 2796	---	---	---
Magnesium	ppm	■ 23	---	---	---
Zinc	ppm	■ 563	---	---	---
Phosphorus	ppm	■ 465	---	---	---
Barium	ppm	■ 4	---	---	---
Boron	ppm	■ 116	---	---	---

Depot: VOLVO0090
Unique No: 11006049
Signed: Jonathan Hester
Report Date: 05 May 2024



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GRAPHS

