



CONSTRUCTION EQUIPMENT

TAKEUCHI TL12V2 412006437 - DIESEL ENGINE



Sample No: VCP390150
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP390150	---	---	---
Sample Date	12 Jun 2023	---	---	---
Machine Hours	68	---	---	---
Oil Hours	68	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

MCCLUNG-LOGAN EQUIPMENT CO INC - FREDERICKSBURG
 358 KINGS HWY
 FREDERICKSBURG, VA
 US 22405
 Contact: JW MEADOWS
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 10.3	---	---	---
Base Number (BN)	mg KOH/g	■ 9.5	---	---	---
Oxidation (PA)	%	29	---	---	---

CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	40	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 23	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	▲ 150	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

WEAR METALS

Iron	ppm	■ 18	---	---	---
Copper	ppm	■ 23	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 153	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 2698	---	---	---
Magnesium	ppm	■ 22	---	---	---
Zinc	ppm	■ 526	---	---	---
Phosphorus	ppm	■ 415	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 160	---	---	---

Depot: MCCFRE
Unique No: 10511492
Signed: Jonathan Hester
Report Date: 15 Jun 2023



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GRAPHS

