



CONSTRUCTION EQUIPMENT

SMITH FENCE TAKEUCHI TL12 412006460 - DIESEL ENGINE



Sample No: VCP442741
Oil Type: NOT GIVEN
Job No: SMITH FENCE



SAMPLE INFORMATION

Sample Number	VCP442741	---	---	---
Sample Date	26 Sep 2023	---	---	---
Machine Hours	285	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	10.2	---	---	---
Base Number (BN)	mg KOH/g	9.6	---	---	---
Oxidation (PA)	%	37	---	---	---



CONTAMINATION

Soot %	%	0.4	---	---	---
Nitration (PA)	%	70	---	---	---
Sulfation (PA)	%	43	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	3.9	---	---	---
Silicon	ppm	25	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	136	---	---	---



WEAR METALS

Iron	ppm	24	---	---	---
Copper	ppm	33	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	143	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2505	---	---	---
Magnesium	ppm	24	---	---	---
Zinc	ppm	492	---	---	---
Phosphorus	ppm	406	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	120	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a new component breaking in. Sodium and/or potassium levels are high. Light fuel dilution occurring. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 10714110
Signed: Jonathan Hester
Report Date: 01 Nov 2023



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GRAPHS

