



CONSTRUCTION EQUIPMENT

SWO-068518 TAKEUCHI TL6 406002994 - DIESEL ENGINE



Sample No: VCP447596
Oil Type: NOT GIVEN
Job No: SWO-068518



SAMPLE INFORMATION

Sample Number	VCP447596	VCP380770	---	---
Sample Date	27 Dec 2023	16 Jan 2023	---	---
Machine Hours	1840	674	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

WHITAKER CONTRACTING

692 CONVICT CAMP RD
GUNTERVILLE, AL
US 35976

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F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	■ 13.6	---	---
Base Number (BN)	mg KOH/g	■ 8.8	■ 9.3	---	---
Oxidation (PA)	%	86	76	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.7	■ 0.4	---	---
Nitration (PA)	%	88	83	---	---
Sulfation (PA)	%	64	62	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 5.4	<1.0	---	---
Silicon	ppm	■ 12	■ 10	---	---
Sodium	ppm	■ 3	■ 8	---	---
Potassium	ppm	■ 2	■ 16	---	---



WEAR METALS

Iron	ppm	■ 35	■ 42	---	---
Copper	ppm	■ 6	■ 58	---	---
Lead	ppm	■ <1	■ 5	---	---
Tin	ppm	■ <1	■ 1	---	---
Aluminum	ppm	■ 4	■ 5	---	---
Chromium	ppm	■ 1	■ 2	---	---
Molybdenum	ppm	■ 54	■ 74	---	---
Nickel	ppm	■ <1	■ 1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1390	■ 1333	---	---
Magnesium	ppm	■ 819	■ 1108	---	---
Zinc	ppm	■ 1237	■ 1473	---	---
Phosphorus	ppm	■ 997	■ 1159	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 17	■ 5	---	---

Depot: WHIGUN
Unique No: 10809263
Signed: Wes Davis
Report Date: 04 Jan 2024



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GRAPHS

