



CONSTRUCTION EQUIPMENT

SWO-063198 HITACHI ZW2206-005407 - DIESEL ENGINE



Sample No: VCP424612
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-063198



SAMPLE INFORMATION

Sample Number	VCP424612	VCP401808	VCP337610	---
Sample Date	26 Jun 2023	21 Mar 2023	23 May 2022	---
Machine Hours	2685	2120	506	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

SAIIA CONSTRUCTION LLC

4400 LEWISBURG RD
BIRMINGHAM, AL
US 35207

Contact: STEPHANI BRITTON
sbritton@saiia.com;doug.bogart@wearcheck.com
T: (205)943-2268
F: (205)943-2269



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	13.3	---
Base Number (BN)	mg KOH/g	9.5	7.8	6.9	---
Oxidation (PA)	%	91	98	49	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	0.3	0.4	0.2	---
Nitration (PA)	%	77	90	77	---
Sulfation (PA)	%	66	67	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	13	8	21	---
Sodium	ppm	4	0	<1	---
Potassium	ppm	2	2	0	---



WEAR METALS

Iron	ppm	16	33	30	---
Copper	ppm	3	7	47	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	2	<1	---
Aluminum	ppm	0	5	2	---
Chromium	ppm	<1	2	<1	---
Molybdenum	ppm	44	58	6	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1741	1159	2159	---
Magnesium	ppm	530	888	15	---
Zinc	ppm	1166	1219	1219	---
Phosphorus	ppm	933	997	975	---
Barium	ppm	<1	0	<1	---
Boron	ppm	26	4	148	---

Depot: SAIBIR
Unique No: 10535833
Signed: Don Baldrige
Report Date: 30 Jun 2023



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GRAPHS

