



CONSTRUCTION EQUIPMENT

SWO-067137 HITACHI ZW2206-005407 - DIESEL ENGINE



Sample No: VCP431012
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-067137



SAMPLE INFORMATION

Sample Number	VCP431012	VCP424612	VCP401808	VCP337610
Sample Date	01 Nov 2023	26 Jun 2023	21 Mar 2023	23 May 2022
Machine Hours	3139	2685	2120	506
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.1	13.2	13.3
Base Number (BN)	mg KOH/g	9.2	9.5	7.8	6.9
Oxidation (PA)	%	86	91	98	49

CONTAMINATION

Soot %	%	0.2	0.3	0.4	0.2
Nitration (PA)	%	66	77	90	77
Sulfation (PA)	%	63	66	67	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	13	8	21
Sodium	ppm	0	4	0	<1
Potassium	ppm	2	2	2	0

WEAR METALS

Iron	ppm	11	16	33	30
Copper	ppm	1	3	7	47
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	2	<1
Aluminum	ppm	2	0	5	2
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	42	44	58	6
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1628	1741	1159	2159
Magnesium	ppm	479	530	888	15
Zinc	ppm	1095	1166	1219	1219
Phosphorus	ppm	1025	933	997	975
Barium	ppm	5	<1	0	<1
Boron	ppm	28	26	4	148

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.

Depot: SAIBIR
Unique No: 10728560
Signed: Sean Felton
Report Date: 08 Nov 2023



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GRAPHS

