



CONSTRUCTION EQUIPMENT

SPM688446 SCORIA HITACHI ZW250-6 ZW2506-005232 - DIESEL ENGINE



Sample No: VCP443533
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM688446 SCORIA



SAMPLE INFORMATION

Sample Number	VCP443533	VCP440595	VCP369263	VCP404882
Sample Date	21 Mar 2024	18 Oct 2023	20 Jun 2023	28 Mar 2023
Machine Hours	5641	5060	4504	3973
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	13.2	13.8	13.5	13.2
Base Number (BN)	mg KOH/g	9.9	9.4	9.9	8.8
Oxidation (PA)	%	58	59	61	55

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	0.5	0.6	0.6
Nitration (PA)	%	62	63	64	60
Sulfation (PA)	%	54	54	56	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	1	2	<1	<1
Potassium	ppm	0	1	1	0

WEAR METALS

Iron	ppm	23	19	20	20
Copper	ppm	2	<1	1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	5	4	4	4
Chromium	ppm	2	1	<1	<1
Molybdenum	ppm	58	57	60	48
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1047	976	1056	752
Magnesium	ppm	948	890	989	766
Zinc	ppm	1167	1179	1321	900
Phosphorus	ppm	1012	954	1046	810
Barium	ppm	0	7	0	0
Boron	ppm	0	0	<1	1

Depot: VOLVO8885
Unique No: 10989303
Signed: Wes Davis
Report Date: 22 Apr 2024



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GRAPHS

