



CONSTRUCTION EQUIPMENT

SWA311357 RANGO VOLVO A60H 350075 - DIESEL ENGINE



Sample No: VCP422923
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA311357 RANGO



SAMPLE INFORMATION

Sample Number	VCP422923	VCP384584	VCP403214	VCP384596
Sample Date	20 Jul 2023	17 Apr 2023	06 Feb 2023	19 Sep 2022
Machine Hours	9836	9112	8525	7435
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	13.7	13.5	13.8	13.3
Base Number (BN)	mg KOH/g	7.5	8.0	8.7	9.8
Oxidation (PA)	%	58	60	57	63

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 %	%	1.2	1.2	0.9	0.9
Nitration (PA)	%	71	73	66	76
Sulfation (PA)	%	56	58	55	61
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	4	13
Sodium	ppm	0	4	4	100
Potassium	ppm	2	<1	2	65



WEAR METALS

Iron	ppm	30	28	25	19
Copper	ppm	10	12	12	59
Lead	ppm	1	<1	1	7
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	9	6	9	5
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	61	57	57	80
Nickel	ppm	2	<1	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1066	1013	1007	1048
Magnesium	ppm	912	922	935	972
Zinc	ppm	1201	1177	1239	1279
Phosphorus	ppm	1005	934	958	1071
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	<1

Depot: VOLVO5055
Unique No: 10589086
Signed: Don Baldrige
Report Date: 08 Aug 2023



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VOLVO GRAPHS

