



CONSTRUCTION EQUIPMENT

HANSON VOLVO L220H 3137 - DIESEL ENGINE



Sample No: VCP421578
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL SAE 10W30
Job No: HANSON



SAMPLE INFORMATION

Sample Number	VCP421578	ASC0006359	VCP423907	VCP414026
Sample Date	14 Mar 2024	18 Jan 2024	24 Aug 2023	12 Jul 2023
Machine Hours	9077	8714	8073	7687
Oil Hours	0	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.5	13.6	13.4
Base Number (BN)	mg KOH/g	8.7	9.0	8.6	9.3
Oxidation (PA)	%	56	55	54	58

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 %	%	0.4	0.4	0.2	0.1
Nitration (PA)	%	53	57	49	53
Sulfation (PA)	%	51	50	49	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	5	3	2
Sodium	ppm	0	0	2	1
Potassium	ppm	0	3	5	<1



WEAR METALS

Iron	ppm	5	11	4	3
Copper	ppm	2	5	2	2
Lead	ppm	0	1	1	0
Tin	ppm	0	1	<1	<1
Aluminum	ppm	0	2	1	2
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	58	62	57	60
Nickel	ppm	0	1	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	1	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	1104	1034	1084	1118
Magnesium	ppm	1015	972	984	1015
Zinc	ppm	1245	1260	1280	1291
Phosphorus	ppm	1059	942	1021	1047
Barium	ppm	0	1	0	0
Boron	ppm	2	4	2	1

Depot: VOLVO0157
Unique No: 10936196
Signed: Wes Davis
Report Date: 19 Mar 2024



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GRAPHS

