



CONSTRUCTION EQUIPMENT

SW1029171 AZ GRAINS VOLVO L110H 632044 - DIESEL ENGINE



Sample No: VCP442986
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1029171 AZ GRAINS



SAMPLE INFORMATION

Sample Number	VCP442986	VCP412320	VCP381517	VCP379851
Sample Date	02 Feb 2024	19 Jul 2023	11 Apr 2023	10 Jan 2023
Machine Hours	5741	4507	4137	3584
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	13.8	14.5	14.8	15.0
Base Number (BN)	mg KOH/g	8.7	8.7	9.1	8.7
Oxidation (PA)	%	66	78	79	73

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 %	%	0.2	0.8	0.8	0.6
Nitration (PA)	%	53	86	84	82
Sulfation (PA)	%	60	62	55	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	8	6	4
Sodium	ppm	2	1	8	2
Potassium	ppm	3	<1	18	3



WEAR METALS

Iron	ppm	6	22	22	20
Copper	ppm	<1	3	4	2
Lead	ppm	<1	4	3	2
Tin	ppm	1	<1	1	<1
Aluminum	ppm	7	5	<1	2
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	144	54	57	54
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1979	1492	1281	1341
Magnesium	ppm	689	988	953	806
Zinc	ppm	1687	1433	1361	1277
Phosphorus	ppm	1460	1122	1070	1035
Barium	ppm	<1	0	0	0
Boron	ppm	599	30	30	16

Depot: VOLVO6174
Unique No: 10870771
Signed: Don Baldrige
Report Date: 09 Feb 2024



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VOLVO GRAPHS

