



CONSTRUCTION EQUIPMENT

A12537 VOLVO L220H 2992 - DIESEL ENGINE



Sample No: VCP438212
Oil Type: MOBIL 15W40
Job No: A12537



SAMPLE INFORMATION

Sample Number	VCP438212	VCP439565	VCP442533	VCP416708
Sample Date	01 May 2024	05 Mar 2024	08 Jan 2024	10 Aug 2023
Machine Hours	17275	16724	16170	14860
Oil Hours	500	0	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

WHEELABRATOR
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 F:



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.8	12.2	12.7
Base Number (BN)	mg KOH/g	8.1	5.9	4.4	5.0
Oxidation (PA)	%	68	40	52	47

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 %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	63	58	66	61
Sulfation (PA)	%	57	49	60	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.3	<1.0
Silicon	ppm	12	8	29	21
Sodium	ppm	<1	2	<1	0
Potassium	ppm	2	3	2	3



WEAR METALS

Iron	ppm	3	4	6	6
Copper	ppm	1	4	<1	1
Lead	ppm	<1	2	1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	1	2	6
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	29	10	26	14
Nickel	ppm	<1	0	<1	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	<1	0	2
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1715	2087	1687	2111
Magnesium	ppm	334	92	369	135
Zinc	ppm	1027	964	1107	1078
Phosphorus	ppm	886	851	900	871
Barium	ppm	0	0	0	0
Boron	ppm	26	5	7	2

Depot: WHEMOR
Unique No: 11032249
Signed: Jonathan Hester
Report Date: 20 May 2024



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GRAPHS

