



CONSTRUCTION EQUIPMENT

A12898 IAA NEW CASTL VOLVO L90G 617343 - DIESEL ENGINE



Sample No: VCP453636
Oil Type: MOBIL 15W40
Job No: A12898 IAA NEW CASTL



SAMPLE INFORMATION

Sample Number	VCP453636	VCP430929	VCP411846	VCP406484
Sample Date	25 Jun 2024	17 Jan 2024	28 Jul 2023	31 Mar 2023
Machine Hours	12820	12480	12075	11715
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.3	13.3	13.5
Base Number (BN)	mg KOH/g	6.9	7.2	7.9	6.7
Oxidation (PA)	%	39	46	52	76

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	0.2	0.2	0.4
Nitration (PA)	%	58	61	58	80
Sulfation (PA)	%	47	48	50	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	8	5
Sodium	ppm	<1	2	1	3
Potassium	ppm	2	2	2	4



WEAR METALS

Iron	ppm	8	10	8	11
Copper	ppm	6	1	<1	0
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	5	5	4	6
Chromium	ppm	<1	1	<1	0
Molybdenum	ppm	16	33	21	12
Nickel	ppm	<1	1	0	0
Titanium	ppm	1	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	2177	1595	2152	2082
Magnesium	ppm	199	388	241	125
Zinc	ppm	1140	1019	1192	1071
Phosphorus	ppm	967	827	939	898
Barium	ppm	1	1	0	0
Boron	ppm	7	12	27	78

Depot: VOLVO8879
Unique No: 11101288
Signed: Wes Davis
Report Date: 28 Jun 2024



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GRAPHS

