



CONSTRUCTION EQUIPMENT

SPM689359 RENTAL VOLVO L120H 632941 - DIESEL ENGINE



Sample No: VCP439359
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM689359 RENTAL



SAMPLE INFORMATION

Sample Number	VCP439359	VCP423174	VCP423171	VCP366913
Sample Date	04 Apr 2024	21 Jun 2023	20 Jun 2023	14 Sep 2022
Machine Hours	3974	2611	2611	2013
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	12.9	14.1	14.1	13.9
Base Number (BN)	mg KOH/g	10.9	10.0	9.4	9.7
Oxidation (PA)	%	83	55	68	77

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 %	%	0.3	0.1	0.4	0.4
Nitration (PA)	%	55	48	76	83
Sulfation (PA)	%	62	51	57	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	5	7
Sodium	ppm	2	<1	<1	3
Potassium	ppm	0	1	2	1



WEAR METALS

Iron	ppm	8	3	19	18
Copper	ppm	<1	1	5	6
Lead	ppm	0	0	<1	4
Tin	ppm	0	<1	1	<1
Aluminum	ppm	3	<1	11	3
Chromium	ppm	0	<1	2	1
Molybdenum	ppm	42	60	62	53
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1858	1039	1122	844
Magnesium	ppm	572	1003	1030	862
Zinc	ppm	1159	1312	1392	1025
Phosphorus	ppm	1046	1068	1093	994
Barium	ppm	0	0	0	0
Boron	ppm	53	0	<1	<1

Depot: VOLVO8885
Unique No: 10977077
Signed: Wes Davis
Report Date: 15 Apr 2024



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VOLVO GRAPHS

