



CONSTRUCTION EQUIPMENT

RSO-035038 VOLVO L220H 2940 - DIESEL ENGINE



Sample No: VCP415572
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RSO-035038



SAMPLE INFORMATION

Sample Number	VCP415572	VCP381494	VCP366169	VCP365454
Sample Date	22 Aug 2023	26 Jan 2023	27 Oct 2022	16 Aug 2022
Machine Hours	7630	0	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	12.9	12.7
Base Number (BN)	mg KOH/g	8.2	9.5	3.9	11.3
Oxidation (PA)	%	86	83	141	87



CONTAMINATION

Soot %	%	0.2	0.1	0.9	0.2
Nitration (PA)	%	77	64	134	66
Sulfation (PA)	%	60	61	93	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	8	4	6
Sodium	ppm	3	2	0	1
Potassium	ppm	3	0	0	0



WEAR METALS

Iron	ppm	6	4	3	5
Copper	ppm	1	<1	<1	<1
Lead	ppm	2	<1	<1	1
Tin	ppm	<1	<1	0	1
Aluminum	ppm	1	<1	<1	4
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	35	41	38	40
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1511	1715	1690	1617
Magnesium	ppm	449	529	497	475
Zinc	ppm	983	1111	1082	1059
Phosphorus	ppm	785	911	900	861
Barium	ppm	0	0	0	0
Boron	ppm	17	34	37	31

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.

Depot: SAIBIR
Unique No: 10622173
Signed: Sean Felton
Report Date: 29 Aug 2023



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GRAPHS

