



CONSTRUCTION EQUIPMENT

SWO-070859 VOLVO L220H 2940 - DIESEL ENGINE



Sample No: VCP444064
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-070859



SAMPLE INFORMATION

Sample Number	VCP444064	VCP428822	VCP415572	VCP381494
Sample Date	03 Apr 2024	05 Dec 2023	22 Aug 2023	26 Jan 2023
Machine Hours	8626	8123	7630	0
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	12.6	13.2	12.9	12.9
Base Number (BN)	mg KOH/g	9.1	8.8	8.2	9.5
Oxidation (PA)	%	78	72	86	83

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.2	0.1
Nitration (PA)	%	62	58	77	64
Sulfation (PA)	%	59	55	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	4	8
Sodium	ppm	3	4	3	2
Potassium	ppm	2	<1	3	0

Diagnosis

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates. 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 acceptable for the time in service.

WEAR METALS

Iron	ppm	6	4	6	4
Copper	ppm	1	<1	1	<1
Lead	ppm	1	0	2	<1
Tin	ppm	2	0	<1	<1
Aluminum	ppm	3	2	1	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	57	52	35	41
Nickel	ppm	1	0	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	1	0	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	2073	1475	1511	1715
Magnesium	ppm	670	700	449	529
Zinc	ppm	1419	1227	983	1111
Phosphorus	ppm	1192	990	785	911
Barium	ppm	<1	0	0	0
Boron	ppm	52	24	17	34

Depot: SAIBIR
Unique No: 10967645
Signed: Doug Bogart
Report Date: 11 Apr 2024



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VOLVO GRAPHS

