



CONSTRUCTION EQUIPMENT

270429 VOLVO EC220D 210884 - DIESEL ENGINE



Sample No: VCP275028
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 270429



SAMPLE INFORMATION

Sample Number	VCP275028	VCP240970	VCP244667	VCP243236
Sample Date	07 Jan 2021	27 Feb 2020	02 Oct 2019	02 May 2019
Machine Hours	8159	7000	6138	5611
Oil Hours	500	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.4	13.6	13.0
Base Number (BN)	mg KOH/g	---	---	---	8.62
Oxidation (PA)	%	87	94	92	89

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	88	98	88	81
Sulfation (PA)	%	61	71	68	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	7	8
Sodium	ppm	4	2	2	2
Potassium	ppm	1	<1	<1	<1

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans le l'huile. L'état de l'huile est acceptable pour la durée de service.

WEAR METALS

Iron	ppm	14	22	25	17
Copper	ppm	1	1	1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	3	5	3	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	30	40	41	40
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1614	1843	1785	1722
Magnesium	ppm	622	486	498	478
Zinc	ppm	1143	947	926	907
Phosphorus	ppm	901	793	773	755
Barium	ppm	0	0	0	0
Boron	ppm	31	24	20	29

Depot: VOLVO0228
Unique No: 5160187
Signed: Wes Davis
Report Date: 11 Jan 2021



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VOLVO GRAPHS

