



CONSTRUCTION EQUIPMENT

268748 VOLVO EC220DL 210778 - DIESEL ENGINE



Sample No: PC274174
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 268748



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SAMPLE INFORMATION

Sample Number	PC274174	VCP252301	VCP251386	VCP213801
Sample Date	21 Dec 2020	04 Mar 2020	05 Aug 2019	28 May 2018
Machine Hours	6942	5901	5461	4038
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	101	---	---	---
Visc @ 100°C	cSt	13.2	13.4	13.5	13.5
Viscosity Index (VI)	Scale	128	---	---	---
Oxidation (PA)	%	81	85	87	86



CONTAMINATION

Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	79	72	71	71
Sulfation (PA)	%	60	71	66	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	14	7	10
Sodium	ppm	4	2	2	4
Potassium	ppm	1	<1	<1	2



WEAR METALS

Iron	ppm	37	76	27	34
Copper	ppm	1	2	1	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	6	3	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	32	42	43	42
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1594	1734	1808	1700
Magnesium	ppm	565	536	535	579
Zinc	ppm	1067	918	943	976
Phosphorus	ppm	876	779	770	805
Barium	ppm	0	0	0	0
Boron	ppm	29	35	32	35

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.

Depot: VOLVO0228
Unique No: 5150225
Signed: Wes Davis
Report Date: 23 Dec 2020



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GRAPHS

