



CONSTRUCTION EQUIPMENT

8000369721 VOLVO ECR145EC 312048 - DIESEL ENGINE



Sample No: VCP394586
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000369721



SAMPLE INFORMATION

Sample Number	VCP394586	VCP347406	VCP273514	VCP260171
Sample Date	06 Jul 2023	02 Jun 2022	04 Nov 2020	03 Dec 2019
Machine Hours	3393	2866	1507	521
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIP (AB)
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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.4	14.1	13.5
Oxidation (PA)	%	82	72	60	59



CONTAMINATION

Soot %	%	0.2	0.2	0.1	0
Nitration (PA)	%	69	83	61	55
Sulfation (PA)	%	61	59	52	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	20
Sodium	ppm	3	2	3	2
Potassium	ppm	<1	2	<1	2

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	15	20	12	26
Copper	ppm	5	8	5	7
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	6	6	3	10
Chromium	ppm	1	2	1	3
Molybdenum	ppm	45	57	50	4
Nickel	ppm	<1	<1	1	11
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	5
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1626	1167	1106	2382
Magnesium	ppm	611	942	930	58
Zinc	ppm	1144	1196	1194	1189
Phosphorus	ppm	1036	1021	962	987
Barium	ppm	0	0	0	<1
Boron	ppm	34	6	6	3

Depot: VOLVO9652
Unique No: 5606069
Signed: Wes Davis
Report Date: 11 Jul 2023



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GRAPHS

