



CONSTRUCTION EQUIPMENT

25521 VOLVO EC350E 314352 - DIESEL ENGINE



Sample No: VCP455270
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25521



SAMPLE INFORMATION

Sample Number	VCP455270	VCP429018	VCP426921	VCP420879
Sample Date	30 Apr 2024	08 Dec 2023	18 Aug 2023	24 Jun 2023
Machine Hours	3111	2556	2066	1806
Oil Hours	0	0	1000	114
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

OL THOMPSON
 3691 PARAMOUNT DR
 NORTH CHARLESTON, SC
 US 29405
 Contact: G. GARRISON
 ggarrison@oltc.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.1	11.9	12.2	12.5
Base Number (BN)	mg KOH/g	9.1	9.5	9.8	9.2
Oxidation (PA)	%	76	81	78	87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	69	63	53	74
Sulfation (PA)	%	59	60	59	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	5
Sodium	ppm	1	0	0	2
Potassium	ppm	2	2	1	<1



WEAR METALS

Iron	ppm	6	6	5	5
Copper	ppm	2	2	3	10
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	42	40	43	44
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1619	1552	1752	1754
Magnesium	ppm	498	506	522	533
Zinc	ppm	1109	1055	1126	1200
Phosphorus	ppm	966	849	972	965
Barium	ppm	0	11	0	14
Boron	ppm	41	39	46	30

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: OLTNOR
Unique No: 11015854
Signed: Don Baldrige
Report Date: 08 May 2024



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GRAPHS

