



CONSTRUCTION EQUIPMENT

25921 VOLVO A45 353393 - DIESEL ENGINE



Sample No: VCP453714
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25921



SAMPLE INFORMATION

Sample Number	VCP453714	VCP422185	VCP440934	VCP429015
Sample Date	15 Jun 2024	24 Apr 2024	03 Mar 2024	04 Dec 2023
Machine Hours	4497	3956	3531	3074
Oil Hours	0	0	0	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

218 - ASCENDUM MACHINERY INC - N. CHARLESTON
 7235 CROSS COUNTRY RD.
 NORTH CHARLESTON, SC
 US 29418
 Contact: MATT MITCHAM
 matt.mitcam@ascendummachinery.com
 T:
 F: (843)414-1129



OIL CONDITION

Visc @ 100°C	cSt	12.7	12.5	12.6	12.5
Base Number (BN)	mg KOH/g	9.8	9.8	9.0	9.2
Oxidation (PA)	%	80	78	78	76

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.4	0.5
Nitration (PA)	%	62	58	65	63
Sulfation (PA)	%	61	61	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	5
Sodium	ppm	0	1	2	7
Potassium	ppm	2	1	<1	<1



WEAR METALS

Iron	ppm	8	7	3	67
Copper	ppm	4	2	8	9
Lead	ppm	<1	<1	2	0
Tin	ppm	<1	1	0	<1
Aluminum	ppm	2	2	2	4
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	42	42	42	59
Nickel	ppm	1	1	3	1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	2
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1737	1616	1676	1087
Magnesium	ppm	523	477	490	919
Zinc	ppm	1201	1095	1036	1233
Phosphorus	ppm	990	936	891	957
Barium	ppm	0	0	0	0
Boron	ppm	26	40	39	2

Depot: VOLVO3387
Unique No: 11089407
Signed: Wes Davis
Report Date: 24 Jun 2024



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GRAPHS

