



CONSTRUCTION EQUIPMENT

RALIEGH, NC/ASCENDUM MACHINERY SERVICE AGREEMENT



Sample No: VCP418466
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19116



SAMPLE INFORMATION

Sample Number	VCP418466	VCP411463	VCP359113	VCP343247
Sample Date	03 Jul 2023	28 Feb 2023	28 Jun 2022	27 Dec 2021
Machine Hours	9812	9110	7986	7291
Oil Hours	0	376	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



IAA - INSURANCE AUTO AUCTIONS - CLAYTON
 60 SADISCO RD
 CLAYTON, NC
 US 27520
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	14.9	14.6	13.7	14.8
Base Number (BN)	mg KOH/g	9.2	9.5	10.8	9
Oxidation (PA)	%	62	57	86	61

T:
F:

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

Soot %	%	1	0.7	1.1	0.7
Nitration (PA)	%	76	61	79	71
Sulfation (PA)	%	55	52	66	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	7	5
Sodium	ppm	0	1	2	1
Potassium	ppm	2	2	0	0



WEAR METALS

Iron	ppm	16	13	19	16
Copper	ppm	1	2	1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	1	0
Aluminum	ppm	5	7	9	7
Chromium	ppm	1	2	1	1
Molybdenum	ppm	65	61	44	66
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1126	1167	1628	1301
Magnesium	ppm	959	896	528	877
Zinc	ppm	1290	1236	1141	1334
Phosphorus	ppm	1083	1019	923	1093
Barium	ppm	0	0	<1	0
Boron	ppm	0	4	23	12

Depot: INSCLA
Unique No: 10552485
Signed: Don Baldrige
Report Date: 14 Jul 2023



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VOLVO GRAPHS

