



CONSTRUCTION EQUIPMENT

25991 VOLVO L35G 3424219 - DIESEL ENGINE



Sample No: VCP449826
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25991



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP449826	VCP405646	VCP364956	VCP309160
Sample Date	26 Jun 2024	04 Aug 2023	28 Dec 2022	15 Jul 2021
Machine Hours	3866	1124	2808	1832
Oil Hours	0	500	500	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.0	13.5	13.3	13.0
Base Number (BN)	mg KOH/g	8.9	9.4	9.7	---
Oxidation (PA)	%	86	85	84	92



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	78	69	70	75
Sulfation (PA)	%	58	59	59	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	4	4	5
Sodium	ppm	3	0	2	3
Potassium	ppm	2	0	0	0



WEAR METALS

Iron	ppm	8	6	5	5
Copper	ppm	6	0	1	23
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	0	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	44	38	44	41
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1676	1807	1761	1691
Magnesium	ppm	531	565	549	496
Zinc	ppm	1148	1276	1066	1116
Phosphorus	ppm	977	997	926	916
Barium	ppm	<1	0	0	0
Boron	ppm	39	37	38	42

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.

Depot: VOLVO3387
Unique No: 11102341
Signed: Angela Borella
Report Date: 01 Jul 2024



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GRAPHS

