



CONSTRUCTION EQUIPMENT

6810 IMERYS REFRACT VOLVO A30G 742636 - DIESEL ENGINE



Sample No: VCP412204
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6810 IMERYS REFRACT



SAMPLE INFORMATION

Sample Number	VCP412204	VCP401729	VCP388623	VCP333005
Sample Date	09 Aug 2023	06 Feb 2023	06 Oct 2022	23 Jun 2022
Machine Hours	4502	3013	3529	3007
Oil Hours	0	3013	500	3007
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

364 - ASCENDUM MACHINERY INC - MACON
 4807 HARRISON RD
 MACON, GA
 US 31206
 Contact: HALIE BAKER
 halie.baker@ascendummachinery.com
 T:
 F: (478)200-5859



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	▲ 12.3	▲ 12.4	▲ 11.9
Base Number (BN)	mg KOH/g	■ 9.3	■ 10.3	■ 10.3	■ 10.7
Oxidation (PA)	%	80	79	87	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.5	■ 0.3	■ 0.5	■ 0.4
Nitration (PA)	%	68	60	71	67
Sulfation (PA)	%	61	62	68	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 6	■ 4	■ 5
Sodium	ppm	■ 1	■ 3	■ 2	■ 0
Potassium	ppm	■ 2	■ 0	■ 0	■ 1



WEAR METALS

Iron	ppm	■ 13	■ 8	■ 12	■ 9
Copper	ppm	■ 1	■ <1	■ 1	■ 1
Lead	ppm	■ <1	■ 0	■ <1	■ <1
Tin	ppm	■ 1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 2	■ 2	■ 1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 45	■ 45	■ 39	■ 39
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1828	■ 1894	■ 1683	■ 1575
Magnesium	ppm	■ 559	■ 540	■ 492	■ 447
Zinc	ppm	■ 1218	■ 1222	■ 1072	■ 1041
Phosphorus	ppm	■ 984	■ 1009	■ 895	■ 886
Barium	ppm	■ 11	■ 0	■ 0	■ 0
Boron	ppm	■ 34	■ 49	■ 32	■ 43

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: ASCMAC
Unique No: 10782855
Signed: Jonathan Hester
Report Date: 15 Dec 2023



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GRAPHS

