



CONSTRUCTION EQUIPMENT

7199 IMERYS REFRACT VOLVO A30G 742635 - DIESEL ENGINE



Sample No: VCP414778
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 7199 IMERYS REFRACT



SAMPLE INFORMATION

Sample Number	VCP414778	VCP422896	VCP395252	VCP388741
Sample Date	12 Dec 2023	25 Jul 2023	14 Feb 2023	21 Sep 2022
Machine Hours	4018	3545	2975	2567
Oil Hours	0	0	3000	2567
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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 4807 HARRISON RD
 MACON, GA
 US 31206
 Contact: HALIE BAKER
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 12.3	▲ 12.2	▲ 12.3
Base Number (BN)	mg KOH/g	■ 9.4	■ 9.4	■ 10.3	■ 10.3
Oxidation (PA)	%	80	82	79	87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.3	■ 0.4	■ 0.3	■ 0.4
Nitration (PA)	%	60	67	62	71
Sulfation (PA)	%	61	62	62	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 5	■ 6	■ 5
Sodium	ppm	■ 2	■ 0	■ 2	■ 3
Potassium	ppm	■ 0	■ 2	■ 0	■ 0

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.



WEAR METALS

Iron	ppm	■ 5	■ 12	■ 8	■ 10
Copper	ppm	■ <1	■ 1	■ 1	■ 3
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ 1	■ <1	■ <1
Aluminum	ppm	■ 1	■ 1	■ 2	■ 2
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 38	■ 40	■ 42	■ 38
Nickel	ppm	■ 0	■ <1	■ 0	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1590	■ 1639	■ 1673	■ 1621
Magnesium	ppm	■ 510	■ 490	■ 494	■ 483
Zinc	ppm	■ 1108	■ 1073	■ 1091	■ 1052
Phosphorus	ppm	■ 873	■ 856	■ 895	■ 880
Barium	ppm	■ 0	■ 11	■ 0	■ 0
Boron	ppm	■ 34	■ 30	■ 40	■ 34

Depot: ASCMAC
Unique No: 10843966
Signed: Angela Borella
Report Date: 23 Jan 2024



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GRAPHS

