



CONSTRUCTION EQUIPMENT

7228 IMERYS REFRAC VOLVO A30G 742629 - DIESEL ENGINE



Sample No: VCP449023
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 7228 IMERYS REFRAC



SAMPLE INFORMATION

Sample Number	VCP449023	VCP424969	VCP390559	VCP320268
Sample Date	02 Jan 2024	04 May 2023	08 Nov 2022	14 Jul 2022
Machine Hours	3979	3550	2942	2511
Oil Hours	0	0	2942	500
Oil Changed	Changed	Changed	Changed	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:
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	▲ 11.7	▲ 11.7	▲ 11.5
Base Number (BN)	mg KOH/g	■ 9.3	■ 9.4	■ 10.9	■ 10.4
Oxidation (PA)	%	76	84	86	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.3	■ 0.3	■ 0.3	■ 0.3
Nitration (PA)	%	61	73	69	70
Sulfation (PA)	%	59	64	67	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 4	■ 5	■ 6
Sodium	ppm	■ 1	■ 4	■ 2	■ 0
Potassium	ppm	■ 0	■ <1	■ 0	■ <1

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	■ 6	■ 10	■ 10	■ 15
Copper	ppm	■ 1	■ 1	■ 5	■ 19
Lead	ppm	■ 0	■ 0	■ <1	■ 3
Tin	ppm	■ <1	■ 0	■ 1	■ 1
Aluminum	ppm	■ 1	■ <1	■ 1	■ 3
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 36	■ 41	■ 38	■ 39
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	■ 0	■ 0	<1
Manganese	ppm	■ <1	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1512	■ 1756	■ 1617	■ 1578
Magnesium	ppm	■ 505	■ 497	■ 483	■ 446
Zinc	ppm	■ 1074	■ 1149	■ 1057	■ 1032
Phosphorus	ppm	■ 831	■ 944	■ 907	■ 882
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 37	■ 35	■ 41	■ 39

Depot: ASCMAC
Unique No: 10843968
Signed: Angela Borella
Report Date: 23 Jan 2024



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GRAPHS

