



CONSTRUCTION EQUIPMENT

7229 IMERYS REFRAC VOLVO A30G 742431 - DIESEL ENGINE



Sample No: VCP449127
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 7229 IMERYS REFRAC



SAMPLE INFORMATION

Sample Number	VCP449127	VCP421142	VCP390542	VCP348418
Sample Date	18 Dec 2023	26 Jul 2023	09 Nov 2022	28 Mar 2022
Machine Hours	1966	1561	1006	578
Oil Hours	0	0	1006	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.0	12.0	11.6	9.3
Base Number (BN)	mg KOH/g	7.8	9.4	10.3	6.0
Oxidation (PA)	%	76	82	84	65

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.3
Nitration (PA)	%	56	67	66	60
Sulfation (PA)	%	57	63	68	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.2	3.2	2.7	7.0
Silicon	ppm	6	7	10	46
Sodium	ppm	1	0	4	4
Potassium	ppm	0	2	0	3



WEAR METALS

Iron	ppm	6	14	11	28
Copper	ppm	2	10	62	342
Lead	ppm	0	<1	1	4
Tin	ppm	<1	2	3	5
Aluminum	ppm	3	2	4	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	40	37	5
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1536	1633	1743	2058
Magnesium	ppm	504	467	480	9
Zinc	ppm	1071	1060	1165	1133
Phosphorus	ppm	826	842	994	969
Barium	ppm	0	11	0	0
Boron	ppm	39	32	39	1

Depot: ASCMAC
Unique No: 10843972
Signed: Wes Davis
Report Date: 24 Jan 2024



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GRAPHS

