



CONSTRUCTION EQUIPMENT

- DIESEL ENGINE



Sample No: VCP441829
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP441829	VCP225552	VCP375762	VCP336681
Sample Date	30 Apr 2024	26 Jan 2023	26 May 2022	07 Apr 2022
Machine Hours	10954	10062	9404	9284
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	SEVERE	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.6	13.9	13.1
Base Number (BN)	mg KOH/g	9.4	10.4	10.7	11.5
Oxidation (PA)	%	64	60	59	84

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.6	0.2	0.5
Nitration (PA)	%	70	68	49	83
Sulfation (PA)	%	55	54	52	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	4	3	6
Sodium	ppm	2	2	1	2
Potassium	ppm	2	9	<1	<1



WEAR METALS

Iron	ppm	84	14	6	40
Copper	ppm	6	<1	<1	1
Lead	ppm	1	3	<1	<1
Tin	ppm	2	<1	<1	<1
Aluminum	ppm	42	6	3	13
Chromium	ppm	4	<1	<1	1
Molybdenum	ppm	64	44	56	44
Nickel	ppm	1	<1	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1089	824	1140	1581
Magnesium	ppm	920	771	880	630
Zinc	ppm	1224	1041	1198	1220
Phosphorus	ppm	1046	772	1021	1024
Barium	ppm	0	0	0	0
Boron	ppm	5	0	10	25

Depot: EHCFOR
Unique No: 11015849
Signed: Don Baldrige
Report Date: 08 May 2024



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VOLVO GRAPHS

