



CONSTRUCTION EQUIPMENT

8000247231 CATERPILLAR 980H 6490 - DIESEL ENGINE



Sample No: VCP252371
Oil Type: MOBIL 1 SAE 10W30
Job No: 8000247231



SAMPLE INFORMATION

Sample Number	VCP252371	VCP251024	VCP251141	VCP222898
Sample Date	18 Jun 2020	09 May 2020	20 Nov 2019	13 Jun 2019
Machine Hours	14263	13928	13296	11974
Oil Hours	965	632	0	284
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	10.8	10.9	10.7	10.8
Oxidation (PA)	%	80	82	75	81



CONTAMINATION

Soot %	%	0.2	0.1	0.2	0.1
Nitration (PA)	%	68	72	64	59
Sulfation (PA)	%	77	75	68	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	7	8	▲ 47
Sodium	ppm	2	2	1	3
Potassium	ppm	2	1	1	<1

Diagnosis

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	49	11	16	10
Copper	ppm	5	12	4	20
Lead	ppm	<1	1	<1	1
Tin	ppm	0	0	<1	0
Aluminum	ppm	3	<1	1	1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	31	33	29	34
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1624	1683	1756	1663
Magnesium	ppm	426	436	382	430
Zinc	ppm	900	915	906	1068
Phosphorus	ppm	768	783	751	876
Barium	ppm	0	0	0	0
Boron	ppm	58	66	58	67

Depot: SHEDAR
Unique No: 5068617
Signed: Wes Davis
Report Date: 24 Jun 2020



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VOLVO GRAPHS

