



CONSTRUCTION EQUIPMENT

CAT CATERPILLAR GMS00793 - DIESEL ENGINE



Sample No: VCP406791
Oil Type: MOBIL DELVAC 1300 SUPER 10W30
Job No: CAT



SAMPLE INFORMATION

Sample Number	VCP406791	VCP405783	VCP365896	VCP325027
Sample Date	06 Nov 2023	28 Jul 2023	03 May 2023	26 Jan 2023
Machine Hours	8774	8212	7688	7133
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PLEASANT RIVER LUMBER
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 DOVER FOXCROFT, ME
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OIL CONDITION

Visc @ 100°C	cSt	11.7	11.7	11.6	11.3
Base Number (BN)	mg KOH/g	10.2	10.2	9.7	10.2
Oxidation (PA)	%	61	62	67	60

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	1	0.8	0.6
Nitration (PA)	%	68	74	79	71
Sulfation (PA)	%	56	57	58	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	3
Sodium	ppm	<1	0	2	2
Potassium	ppm	1	2	3	5

WEAR METALS

Iron	ppm	9	12	12	8
Copper	ppm	<1	2	2	2
Lead	ppm	1	1	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	3	3	<1	5
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	60	60	64	63
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1217	1223	1218	1163
Magnesium	ppm	1098	1099	1058	996
Zinc	ppm	1313	1309	1397	1312
Phosphorus	ppm	1189	1187	1117	1070
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: PLEDOV
Unique No: 10790949
Signed: Don Baldrige
Report Date: 19 Dec 2023



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GRAPHS

