



CONSTRUCTION EQUIPMENT

CAT CATERPILLAR GMS00793 - DIESEL ENGINE



Sample No: VCP405783
Oil Type: MOBIL DELVAC 1300 SUPER 10W30
Job No: CAT



SAMPLE INFORMATION

Sample Number	VCP405783	VCP365896	VCP325027	VCP356795
Sample Date	28 Jul 2023	03 May 2023	26 Jan 2023	11 Aug 2022
Machine Hours	8212	7688	7133	5547
Oil Hours	500	500	500	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	11.7	11.6	11.3	12.0
Base Number (BN)	mg KOH/g	10.2	9.7	10.2	9.7
Oxidation (PA)	%	62	67	60	76

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	0.8	0.6	1.7
Nitration (PA)	%	74	79	71	104
Sulfation (PA)	%	57	58	54	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	3	4
Sodium	ppm	0	2	2	3
Potassium	ppm	2	3	5	1

WEAR METALS

Iron	ppm	12	12	8	32
Copper	ppm	2	2	2	14
Lead	ppm	1	<1	0	2
Tin	ppm	0	<1	0	1
Aluminum	ppm	3	<1	5	7
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	60	64	63	64
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1223	1218	1163	1170
Magnesium	ppm	1099	1058	996	953
Zinc	ppm	1309	1397	1312	1327
Phosphorus	ppm	1187	1117	1070	1029
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	0	4

Depot: PLEDOV
Unique No: 10790955
Signed: Don Baldrige
Report Date: 19 Dec 2023



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GRAPHS

