



CONSTRUCTION EQUIPMENT

CATERPILLAR D8T JKPZ03752 - DIESEL ENGINE



Sample No: VCP440502
Oil Type: CAT DEO ULS 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP440502	VCP441741	VCP432419	VCP431637
Sample Date	25 Mar 2024	07 Feb 2024	23 Jan 2024	15 Jan 2024
Machine Hours	10832	0	0	0
Oil Hours	175	0	30	25
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	SEVERE

COVANTA ENERGY
 141 CRANBERRY HWY
 WEST WAREHAM, MA
 US 02576
 Contact: SAWYER
 ssawyer@woodcomachinery.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.7	13.0	13.4	15.8
Base Number (BN)	mg KOH/g	10.0	7.4	10.5	10.6
Oxidation (PA)	%	78	44	68	40



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.1	0
Nitration (PA)	%	52	43	42	53
Sulfation (PA)	%	61	44	57	44
Glycol	%	NEG	NEG	NEG	▲ 0.10
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	16	9	7	7
Sodium	ppm	3	5	24	▲ 140
Potassium	ppm	8	20	▲ 122	▲ 671



WEAR METALS

Iron	ppm	7	3	4	7
Copper	ppm	9	20	119	▲ 566
Lead	ppm	0	0	1	8
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	<1	<1	2
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	36	34	46	103
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1916	1583	1630	1987
Magnesium	ppm	477	408	408	96
Zinc	ppm	1191	1070	1136	1098
Phosphorus	ppm	1021	882	874	955
Barium	ppm	0	0	0	<1
Boron	ppm	41	48	48	9

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 suitable for further service.

Depot: COVWES
Unique No: 10964495
Signed: Wes Davis
Report Date: 06 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

