



CONSTRUCTION EQUIPMENT

T-CAT TIGERCAT 250C 2502002 - DIESEL ENGINE



Sample No: VCP430547
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: T-CAT



SAMPLE INFORMATION

Sample Number	VCP430547	VCP406865	VCP324033	VCP387350
Sample Date	14 Dec 2023	07 Jul 2023	14 Apr 2023	07 Feb 2023
Machine Hours	23275	22189	21611	21094
Oil Hours	600	500	500	800
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	14.9	14.6	13.3	14.0
Base Number (BN)	mg KOH/g	7.6	8.5	7.5	8.5
Oxidation (PA)	%	116	92	75	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	115	107	78	91
Sulfation (PA)	%	75	65	54	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	3
Sodium	ppm	6	5	2	<1
Potassium	ppm	5	2	3	1



WEAR METALS

Iron	ppm	23	16	9	15
Copper	ppm	2	1	<1	0
Lead	ppm	19	9	3	5
Tin	ppm	<1	<1	1	0
Aluminum	ppm	3	4	0	<1
Chromium	ppm	4	4	2	<1
Molybdenum	ppm	80	72	62	68
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1321	1274	1099	1201
Magnesium	ppm	1214	1165	1021	992
Zinc	ppm	1631	1500	1374	1364
Phosphorus	ppm	1297	1193	1092	1108
Barium	ppm	0	0	0	<1
Boron	ppm	9	2	4	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: 10809274
Signed: Don Baldrige
Report Date: 03 Jan 2024



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GRAPHS

