

500-Hour Service Checklist

JCB 510-56 / 506.36 • EcoMAX Tier 4 Final



Serial / Unit _____ Hours _____ Date _____					DONE	0 / 51	OPEN	0 repair item(s)
✓ OK good / done ADJ adjusted on site REP repair required (logs to Defect Log) N/A not applicable — record measured values & part numbers at right								
	SERVICE TASK	METHOD / WHAT TO CHECK	SPEC / TARGET	MEASURED	STATUS	INIT	DATE	COMMENTS / PART No.
A	PRE-SERVICE & SAFETY							
1	Isolate & lock out machine	Park brake on; neutral; boom lowered & retracted; chocked; engine OFF; isolator OFF; personal lock & tag (CSA Z460)	Zero-energy state					
2	Record hours & read fault codes	Note hour meter; read TFT dash; record stored / active DTCs & warning lamps before service	Log all DTCs					
3	Full visual walk-around	Inspect for oil / fuel / coolant / hydraulic / DEF leaks, damage, missing guards, loose fasteners	No leaks / damage					
4	Clean machine & service points	Degrease around filler caps, dipsticks & filters to prevent contaminant ingress	Clean before opening					
B	ENGINE — EcoMAX 4.4 L (T4 Final)							
5	Change engine oil	Drain warm; refill to dipstick MAX. Confirm grade for build (factory fill JCB 10W-30)	≈ 14 L (3.6 gal)					
6	Renew engine oil filter	Fit genuine JCB filter; oil seal lightly; hand-tighten per OEM; leak-check after run-up	Genuine JCB					
7	Renew fuel filter & separator	Replace primary & secondary fuel filters; drain water trap; prime & bleed system	Drain / re-prime					
8	Service air filter (twin element)	Inspect primary + safety elements; renew per condition; check ducting & clamps	Renew if restricted					
9	Check coolant level & strength	Verify level & antifreeze %; pressure-test cap; inspect hoses, clamps, core	≈ 23 L @ 50% AF					
10	Clean radiator / CAC / oil cooler	Blow out debris (low-pressure air); straighten fins; check fan, shroud & guard	Clear fins / cores					
11	Inspect drive belt(s)	Check for cracks, glazing, fraying; verify auto-tensioner; renew if worn	No cracks / glaze					
12	Inspect SCR / DEF system	Sealed-for-life SCR (no DPF). Check DEF level & quality, dosing lines, injector, leaks	DEF tank ≈ 17.3 L					
13	Check engine mounts & earths	Inspect mounts for cracks / security; clean & tighten ground straps	Secure / tight					
C	TRANSMISSION & AXLES							
14	Check transmission oil	JCB powershift — check level at temp; look for contamination / discolouration; top up	To dipstick MAX					
15	Renew transmission filter	Replace if due at this interval; record part number	Per OEM interval					
16	Front axle diff & hub oils	Epicyclic hub-reduction — check diff plug & each hub (hub mark at 6 o'clock); top up	Level at plug					
17	Rear axle diff & hub oils	510-56 has driven front & rear axles — repeat diff & hub checks on rear	Level at plug					