

PRE-OPERATIONAL CHECKLIST FOR A tower crane



OPERATOR'S NAME DATE TIME

MAKE / MODEL CAPACITY TONS HOUR METER READING HRS

All the items in the "ITEMS TO BE CHECKED" column must be checked by operators before operating equipment.

Indicate whether each item is in a serviceable condition (using a tick) or not (using a cross). If irrelevant, write n/a in the comments section. If defective, comment on the exact nature of the defect and do not operate until reported and corrected. A new checklist then needs to be filled in and retained indicating that all parts are serviceable.

PERSONAL PROTECTIVE EQUIPMENT REQUIRMENTS

Heights safety harness and connector (rope grab or short lanyard). Reflective jacket, safety boots and hard hat in hard hat areas when disembarked from the crane.



PRE-OPERATIONAL ITEMS TO BE CHECKED

PRE-OPERATIONAL ITEMS TO BE CHECKED			
360° WALK AROUND (RAIL MOUNTED)			
MAIN ISOLATOR SWITCH (CONDITION, LOCK OUT)		RAIL SLEEPERS (CONDITION)	
POWER SUPPLY PLUG IN (CONDITION, DAMAGE)		TRAVEL LIMIT SWITCH RAMP (CONDITION)	
TRAILING CABLE & CABLE WINDER (CONDITION)		COPPER JOINT CONDUCTOR (IF APPLICABLE)	
TRAVEL RAIL SUPPORTS (CONDITION, DAMAGE)		RAIL EARTH WIRES (CONDITION)	
TRAVEL RAIL FISHPLATES (CONDITION, SECURE)		RAIL CLAMPS (CONDITION, DISENGAGED)	
RAIL END STOPS (CONDITION, SECURE)		RAIL SWEEPS (IF APPLICABLE) (CONDITION)	
360° WALK AROUND (STATIC/FIXED BASE)			
CONCRETE BASE (CONDITION, CRACKS, LIFTING)		BASE BEAM (CONDITION, LEVEL)	
MAIN ISOLATOR SWITCH (CONDITION, DAMAGE)		BASE BALLAST (CONDITION)	
MAIN SUPPLY PLUG IN (CONDITION, SECURE)		OBLIQUE LEGS (CONDITION, SECURE)	
CLIMBING CHECKS			
CAT LADDER (CONDITION)		SLEWING RING (CONDITION, GREASED)	
SAFETY HARNESS AND SAFETY LINE (CONDITION)		SLEW BRAKE (CONDITION)	
MAST SECTIONS (CONDITION, CRACKS, BULGES)		SLEWING GEAR (CONDITION)	
MAST SECTIONS (PINS, WASHERS & LOCK NUTS)		SLEWING MOTOR (CONDITION, OIL LEVEL)	
HYDRAULIC GROUP (IF APPLICABLE) (CONDITION)		COMPARTMENT (CONDITION, CLEAN)	
REST PLATFORMS (CONDITION)		CAT HEAD (CONDITION, LIMIT SWITCHES)	
POWER SUPPLY CABLE (CONDITION)			
PRE-OPERATIONAL CHECKS			
JIB/COUNTER (CONDITION)		COUNTER JIB BALLAST (CONDITION)	
JIB SECTIONS (CONDITION)		TROLLEY AND GUIDE ROLLERS (CONDITION)	
JIB/COUNTER JIB TIES (CONDITION)		HOOK BLOCK, SAFETY LATCH, SHEAVES (CONDITION)	
ROPES, SHEAVES (CONDITION)		ANEMOMETER (CONDITION)	
HOIST WINCH AND DRUM (CONDITION)			
GEAR BOXES (CONDITION, OIL LEVEL)			
OPERATIONAL CHECKS			
ISOLATOR SWITCH (CONDITION)		TROLLEY SMOOTH OPERATION,	
WARNING HOOTER/SIREN (CONDITION)		TROLLEY LIMIT OUT/IN	
HOIST LOWER/RAISE (ACTIVATION SPEEDS, LIMIT UP)		SLEW LEFT/RIGHT (ACTIVATION, BRAKES)	
TROLLEY TRAVERSE OUT/IN			

OPERATOR SIGNATURE DATE

Never rush an inspection. Remember: your reputation is on the line!