

GMI No 34

**MAINTENANCE INSTRUCTION FOR AIR COMPRESSOR CPT-365 CFM
COMPRESSURE UNIT**

GROUP	DAILY	Every 50 hrs on every week (Which occurs first)	Every 200 Hrs or month (which occurs first)	Every 500 Hrs	Every 1500 hrs	3000 to 6000 Hrs.
Lubrication system	1. Maintain correct oil level upto 'Full mark on the indicator	-	-	1. Change compressor oil 2. Renew compressor oil filter element 3. Remove and clear 'Y' type strainer		
Air Induction system	1. Check and clean air filters in dusty condition 2. Blow off safety valves twice a day 3. Drain air storage tank if compressor used continuously. 4. Drain of water from control filters in running condition and before shutting down	1. Clean & refill the air intake & filter	1. Inspect and clean air storage tank 2. Replace felt packing of air filter for storage tank 3. Check and clean pressure regulator 4. Check connections fittings , lighten all loose nuts & bolts	-	1. Remove the inter stage pipe and examine compressor blades for wear. 2. Inspect the surface of the rotor for any unusual war when interstate pipe is removed 3. Blades should be changed if there is chipping or splitting in the top chamber	

MAINTENANCE INSTRUCTION FOR AIR COMPRESSOR-ENGINE ASSYS
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GROUP	DAILY	EVERY 50 HRS	EVERY 200 HRS	EVERY 200 HRS	EVERY 1500 HRS
ENGINE	1. Maintain correct oil level in sump		1. Flush out radiator and water jackets	1. Examine the big end bearing and both main bearing. Check nuts and split pins	
	2. Check water level in radiator			2. Check the main and big end bearing for lift and side play	
	3. Inspect the radiator and oil cooler pins for accumulation of dirt 4. Check fan belt tension				
AIR CLEANER	1. Check and clean pre filter especially in dusty conditions	1. Clean and refill the air intake filter to the indicated level	-	-	-
FUEL SYSTEM	1. Fill fuel oil tank with a clean and correct fuel 2. Drain of water from the fuel tank before starting	-	-	-	-
ELECTRICAL SYSTEM	1. Check Battery for proper fitting in the cradle and	-	1. Lubricate Dynamo and self		

	its leads for loose connection. 2. Top up battery if level is low		starter bearings and blushing 2. Check battery terminals for corrosion. Remove leads and smear with jelly before replacing		
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INSTRUMENT PANNEL CHECKS

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1. The pressure difference between air discharge and the oil inlet pressure should not exceed 25 PSI. If it falls below 15 PSI the plant should be stopped and cause traced.
2. The compressor air discharge temperature should be 100°F above ambient temperature. If the temperature rises considerably the oil system should be checked.

DO's

DON'Ts

1	Read manufacturers instruction carefully.	1	Forget to check operation of pressure regulator
2	Pay particular attention to compressor lubrication system	2	Forget to close the air storage tank drain cock after starting
3	Use only recommended grade oil	3	Interfere with automatic unloader valve without reason.
4	Check sump periodically for correct level	4	Allow the surface to get scratched or fitted while servicing air valves.
5	Keep all nuts and bolts tight	5	Forget to carry out the maintenance schedule as per instruction.
6	Grease all the nipples provided on chassis springs, axles etc	6	Interfere with the compressor safety valve settings (These are factory adjusted)
7	Keep all air connections pressure tight	7	Forget to maintain the correct tyre pressure
8	Position the compressor to run in a dust free atmosphere as per as possible	8	Overload the compressor
9	Close the service velves while removing hose from compressor	9.	Fill the fuel tank while the engine is operating while servicing compressor.
		10	Allow smoking or flame around flammable material while servicing compressor.

		11	Operate the compressor in a closed building without providing adequate ventilation as the exhaust contains carbon monoxide, a colourness, order less and poisoness gas.
		12	Clean, service or make repairs or adjustments on the compressor while it is operating unless it is absolutely necessary.
		13	Direct compressed air toward personnel , as it may cause serious injury
		14	Remove oil sump filler plug before pressure has been relieved from the air receiver
		15	Hesitate to contact the Workshop if in trouble.

Note:- Points marked * will be carried out by the maintaining workshop only