

الشركة الوطنية لحفر وصيانة ابار النفط

National Oil Well Drilling & Workover Company

احدى شركات المؤسسة الوطنية للنفط

N.O.C Company

 **CAT D3508 WITH TORQUE CONVERTER SPECIFICATION**

Our Ref :NWD-TC-2021-T-70-05.

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| ITEM # | QUANTITY | UOI | DESCRIPTION |
| 01 | **02** | UNITS | CAT D3508 RIG ENGINE: Direct coupled with C245-125 FH NATIONAL TORQUE CONVERTER  ENGINE: Make / Model : Cat D3508 Cooling System : Water Cooled / Radiator Speed : 1,200 rpm Power : 680 HP @ 1,200 RPM  Fuel Used : Diesel No. of Cylinders : V8  Cycle : 4 Stroke cycle IC engine  Aspiration : TCAC Jacket water Compression Ratio : 14. 5 is to 1 Bore : 170.00 mm (6. 69") Stroke : 190.00 mm (7. 48") Application : Rig Floor Engine  FEATURES:1. Air Inlet System: Heavy duty Air cleaners, dual element, service indicators, Air inlet adaptors & shut off. Required square type design2. Cooling System: Radiator with guard for desert operation  @ 50° C ambient temperature capability with expansion tank, coolant drain lines with valves, fan belt & guards,  coolant level sensors & coolant level switch gauge. Should be shipped with Cat extended life coolant. Fan should be blower type. Inform supplier to make sure that we receive  the right size of Radiator intended for Rig Engine D3508 application that would fit in the Rig floor without any problem.3. Exhaust System: Stainless steel exhaust flex fittings, dry manifold, flanges face outlet & mufflers with spark arrestor.4. Fuel system: Primary & secondary fuel filters, with service indicators, fuel priming pump, flexible fuel lines. 5. Lube System: Lubrication oil filters, oil level regulator, oil  lines with valves, fumes disposal with lines, gear type lube oil pump, electronic & air pre-lube oil pump, deep oil sump.6. Mounting System: Rail mounted floor type. Length to accommodate  from radiator to Torque converter. Engine & radiator must be mounted in one oilfield skid.7. Starting System: Air Start8. Governing System: Hydra Mechanical Governor 3161L Woodward9. Shut off system: Engine should have Hydra Mechanical Shut  OFF Protection for LOW Oil Pressure, Low water level,  High Water temperature, OVER CRANK & Over speed Engine RPM can be controlled from Driller's Console.10. With lifting eyes11. Instrument panel should be right hand mounted |
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|  |  | UNITS | 12. Filters should be cartridge type 13. Air Actuated Governor Control AIR ACTUATOR 3N9124 ROD END - BALL BEARING 3H4976 KIT - ACTUATOR (Includes lever, cover, 4W0085 bearing, push rod, diaphragm) KIT - DIAPHRAGM (Include brng. & diaphragm) 7W4923 14. Flywheel & flywheel housing SAE 00 to fit with C245-125 FH National Torque Converter. **2 UNITS TORQUE CONVERTER**1 Brand : NATIONAL2. Model : C245 - 125 FH3. Include Shock mounted oil temperature & pressure gauge,  with circulating pump, cooling connections, heavy output  shaft & bearings, with the following arrangement type:  - Arrangement for direct mounting on SAE # 00 Engine flywheel housing complete with spline drive & support plates & heat exchanger with cooling system.  General:- Engine RPM and Emergency Shutoff can be controlled from driller console - Each engine assembly should have a separate Oilfield skid with Rubber mounting capable of towing & skidding as it should  be used on Mobile Rigs. - The engine should be permanently mounted on the skid  & does not require to be removed from skid during every Rig move.  - The unit should exactly replace the existing Cat D379 engine complete with Torque Converter. - The engine should be Brand new & of USA origin. Remanufactured are not acceptable - The new Cat D3508 with Torque Converter should be  applicable to be used for Oil well 1600 Compound Drive Serial No. H37 -26 or H 37 -28 - Include Test Certificate, Certificate of conformance, Warranty  Certificate & any other needed documentations- Complete with Service & user Manual with CD ROM \*Warranty\* Training for 2Mechanics for 10 days including accommodation, food and general expenses\* Inspection and Witnessing by NWD personnel prior to shipment -The offer must include Detailed Technical Offer, Data sheet, they can make also checklist based on our requirements for to evaluate easily ::::::::::::::::::: NOTHING FOLLOWS:::::::::::::::::::::: |