

**ORDER FOR SUPPLIES OR SERVICES**

**IMPORTANT: Mark all packages and papers with contract and/or order numbers.**

1. DATE OF ORDER 08/02/2010	2. CONTRACT NO. (If any)	6. SHIP TO: David Sobolewski		
3. ORDER NO. DTMA4V10019	4. REQUISITION/REFERENCE NO. PRWR1000041	a. NAME OF CONSIGNEE TS STATE OF MICHIGAN		
5. ISSUING OFFICE (Address correspondence to) DOT/Maritime Administration, DPO Acquisition 201 Mission Street, Suite 1800  San Francisco CA 94105-1905		b. STREET ADDRESS Great Lakes Maritime Academy		
		c. CITY Traverse City	d. STATE MI	e. ZIP CODE 49686

7. TO: a. NAME OF CONTRACTOR <b>DUNS# 059740746</b>	f. SHIP VIA
---	-------------

b. COMPANY NAME <b>MICHIGAN TRACTOR AND MACHINERY CO.</b>			8. TYPE OF ORDER	
c. STREET ADDRESS <b>24800 NOVI RD.</b>			<input checked="" type="checkbox"/> a. PURCHASE	b. DELIVERY - Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.
d. CITY <b>NOVI</b>	e. STATE <b>MI</b>	f. ZIP CODE <b>48375-2414</b>	REFERENCE YOUR:  Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	

9. ACCOUNTING AND APPROPRIATION DATA 2010 - 70 - X1750 - SMR 120 - SM - R107 - 0 - 0000 - 160000 - - - - 25431 - 6100 - 6600 -	10. REQUISITIONING OFFICE
---	---------------------------

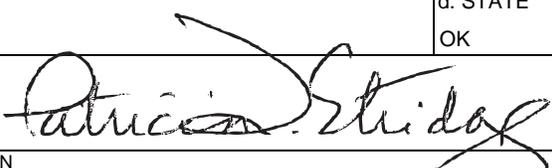
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input checked="" type="checkbox"/> a. SMALL <input type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> g. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. EMERGING SMALL BUSINESS	12. F.O.B. POINT Destination
--	---------------------------------

13. PLACE OF		14. GOVERNMENT B/L NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 09/24/2010	16. DISCOUNT TERMS
a. INSPECTION	b. ACCEPTANCE			

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	<b>SEE LINE ITEM DETAIL</b>					

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT	19. GROSS SHIPPING WEIGHT	20. INVOICE NO.		17(h) TOT. (Cont. pages)
	21. MAIL INVOICE TO: Susan Wong				
	a. NAME DOT/ Enterprise Services Center (ESC) OFO/FAA, Oklahoma City				\$4,900.00
	b. STREET ADDRESS (or P.O. Box) MARAD A/P WR Invoices Branch, AMZ-150 PO Box 25710,				
c. CITY Oklahoma City		d. STATE OK	e. ZIP CODE 73125		17(i) GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature) 	23. NAME (Typed) Patricia L. Etridge TITLE: CONTRACTING/ORDERING OFFICER
--	--



**ORDER FOR SUPPLIES OR SERVICES  
SCHEDULE - CONTINUATION**

PAGE NO.  
3 of 3

**IMPORTANT: Mark all packages and papers with contract and/or order numbers.**

DATE OF ORDER 08/02/2010	CONTRACT NO.	ORDER NO. DTMA4V10019
-----------------------------	--------------	--------------------------

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p><i>SOM10 TURBOCHARGER OVERHAUL PRWR1000041</i></p> <p>SOM10 TURBOCHARGER OVERHAUL PROVIDE TECHNICAL AND SERVICES AS PER ATTACHED SOW</p> <p><i>Delivery Date      Start Date      End Date</i> 09/24/2010      08/02/2010      09/24/2010</p> <p>Reference Requisition: PRWR1000041 VENDOR'S DUNS NUMBER # 059740746</p>	1.00	JOB	4,900.000	4,900.00	

**TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17i)** ⇒ \$4,900.00

<b>Solicitation</b>	<b>Document No.</b> DTMA4Q10043	<b>Document Title</b> SOM10 TURBOCHARGER OVHL	Page 1 of 3
---------------------	------------------------------------	--	-------------

## 1 STATEMENT OF WORK

### 1.0 ABSTRACT

1.1 This work item describes the requirements for the contractor to provide professional services to inspect, service, and overhaul Caterpillar Turbocharger.

2.0 REFERENCE: Available On Board Vessel

3.0 ITEM LOCATION/QUANTITY/DESCRIPTION

3.1 Location/Quantity

3.1.1 Quantity: Two (2) turbocharger assemblies

3.2 Item Description/Manufacturer:

3.2.1 Caterpillar D398 Engine:

a) 4HD-755/L1781-118 - Serial No.: 9M9928 8N2955

b) 4HD-755/1281-2 - Serial No.: 9M9928 8N2954

4.0 NOTES:

4.1 Contractor shall notify the ABS Surveyor for inspection of the turbochargers. MARAD DPO will make direct arrangements with ABS for payment of all applicable fees associated with this Task Order.

4.2 It is the responsibility of the Contractor to ensure that his bid covers Total Scope of work specified herewith and ensures allowance for all Labor and Materials needed to execute this Task Order. There shall be no changes; to neither labor, nor materials without the prior written approval by the MARAD DPO ACO.

4.3 Any and all new work, not addressed by this Task Order, is subject to a change order and prior approval by MARAD DPO ACO. Contractor shall submit "As Found Condition Report" to MARAD COTR and Chief Engineer, denoting conditions found, together with estimates.

4.4 Any particulars in this Specification for the work involved are given for the guidance of the Contractor, who is however, to take his own particulars and dimensions, and to be responsible for same, in accordance with the intent of this Task Order shall be brought to the immediate attention of MARAD DPO ACO.

5.0 QUALITY ASSURANCE REQUIREMENTS:

5.1 The Contractor shall perform the work herein specified in a good and workmanlike manner and completed in all respects, leaving the vessel ready for sea condition; that material and workmanship used must be of equal or better quality throughout; that Contractor furnished material must conform in size, quality, and details to those originally installed on the vessel; that repairs must, in every respect, be made under the supervision and to the satisfaction of the Chief Engineer and ABS Surveyor. As a guideline, all material, construction, and certification shall conform to "American Bureau of Shipping Rules for Building and Classing Steel Vessels".

5.2 Any particulars in the Specification for the work involved are given for the guidance of the Contractor, who is however, to take his own particulars and dimensions, and to be responsible for same, as the intent of these Specifications is repair the vessel in accordance with the attached Specification.

6.0 STATEMENT OF WORK REQUIRED

6.1 Provide all labor, material, and equipment to completely service and overhaul two (2) turbocharger assemblies.

6.2 Contractor shall take delivery of the turbochargers at Great Lakes Maritime Academy in Traverse City, Michigan and transport to contractor's facility for complete servicing.

6.3 Contractor shall visually inspect turbochargers for signs of leaks, cracks or misalignment. Document and provide a report to MARAD COTR and Chief Engineer.

6.4 Open and inspect turbochargers, take and record "As Found" measurements and clearances. Conduct a visual inspection of the blades for wear, scoring, or any other abnormalities and accessible components to assess the material condition of the units. Inspection of the turbochargers shall include, but not be limited to, checking axial clearances, deflection run-out on compressors and turbine sides, and gas inlets. Provide a typewritten condition report to MARAD COTR and Chief Engineer denoting "As Found" measurements and clearances.

6.5 Thoroughly clean compressor casing, inlet, diffuser and shroud. Shot or silica blast, as appropriate, the turbine case, exhaust cone, partition, inlet cover, the nozzle ring, shroud, compressor wheel, turbine wheel, divider shield and diffuser.

6.6 Recondition parts for proper reassembly. Remove any broken bolts and re-tap threaded holes, checking for proper thread engagement. Machine critical mating surfaces. Balance rotating assemblies to within .01 oz./in. Provide balance report to MARAD COTR and Chief Engineer. Paint interior and exterior surfaces for long-term storage and preservation.

6.8 Reassemble units with all new radial bearings and fasteners. Apply sealant and locking compound to mating faces and fasteners. Verify and document proper bearing size, clearances and conditions. Confirm and document proper clearances, seal run-out, shim pack thickness, total rotor travel, and end-thrust.

6.9 Upon completion of all work and inspections, Contractor shall seal off all openings and crate turbocharger assemblies for transport and delivery to Great Lakes Maritime Academy in Traverse City, Michigan.

6.2 Inspection and Testing:

<b>Solicitation</b>	<b>Document No.</b> DTMA4Q10043	<b>Document Title</b> SOM10 TURBOCHARGER OVHL	Page 2 of 3
---------------------	------------------------------------	--	-------------

6.2.1 Perform a liquid penetrant inspection of compressor wheels and turbine exhaust wheels. Measure and record all dimensions and compare to as built specifications.

6.1.2 Measure and record nozzle ring groove clearance, nozzle ring dimensions, and nozzle ring flow area. Compare to as built tolerances and nameplate data.

6.1.3 Identify overhaul date, facility, model and serial number on new nameplate for ease of reference.

7.0 PERFORMANCE CRITERIA: Deliverables

7.1 Contractor shall provide to the Chief Engineer typed records of all tests performed in accordance as called out for by Paragraphs 6.3, 6.4, and 6.6.

7.2 Contractor shall record all clearances and tolerances and provide "As Released" report in accordance with as built specifications and deliver to the Chief Engineer.