

### **Purchase Order**

To:

Aggressive Tooling Inc.

PO number

S108-16002CVS

Original Date

February 8, 2016 February 8, 2016

Print Date Last Revision Date

Company

Tenneco Japan Ltd.,

RFS-2016-01-24-gurupras-7308

Invoice to:

Tenneco Japan Ltd. Osaka Plant

2-18 Rinkuoraikita, Izumisano, Osaka, 598-0048, Japan

Attn: Mr. Yutaka Okamatsu / +81 72 458 2520

This purchase Order is subject to Tenneco Automotive's Standard Purchase Order Terms and Conditions, available on www.tasupplier.com, which are hereby incorporated by reference and made a nart of this agreement
WE REQUIRE ALL SHIPMENTS TO BE DELIVERED BY
PURCHASE ORDER / RELEASE DUE DATE. IF THIS CAN NOT BE
MET, PLEASE CONTACT THE PLANT REQUISITIONER IMMEDIATELY

Due Date: To be informed by Guru Prasad

Ship to:

Tenneco Japan Ltd, Osaka Plant

2-18 Rinkuoraikita, Izumisano, Osaka, 598-0048, Japan Attn: Mr. Guru Prasad +81-72-458-2520

Requested by: Rangan Chakravarthi

Payment Terms: Currency: Delivery Terms: USD Progressive Net Payment ce per Unit Net Value Order Qty Item

### Customer Tooling, SCR Combine(new model), Torque and Final Gauge blocks

Torque Station, Final Gauge new blocks and installation,

010 sets

sets

020

Additions to the existing Final Gage (Agg#10398)

to combine 1J585-1910-1

\$25,665.00

10398-21

\$25,665.00

Torque Station, Final Gauge new blocks and installation,

\$23,425.00

\$23,425.00

Additions to the existing Final Leak Tester (Agg#10399) to combine 1J585-1910-1

10399-20

Torque Station, Final Gauge new blocks and installation,

Budgetary Cost for On Site Technical Support for Kubota 3.8L

SCR Tooling (Agg#10398/10399) to Include: 2 Technician for 5 Days

3 Days On-Site- Minimum 10 hour days

Flights

Hotel

Tech Daily Allowance

\$32,000.00

\$32,000.00

10398-TS5

Total

\$81,090.00

(Reference: 9.628,626JPY)

\* Please send original invoice with signature via physical mail.

This PO does not mean automatic payment to your account.

For statutory purpose, Tenneco Japan requires original invoice with signature for payment.

- \* Please put in the PO# S108-16002CVS on your invoice and on every inquiry about this PO/payment.
- \* Payment: 100% After Approval, Net 180 days.
- \* THIS REFERS TO YOUR QUOTE 15602

\* Our DHL Account # is : 963697620

RECEIVED

Authorized by:

A Ramayama, Plant Manager

Authorized by:

9/2016

Authorized by

Ouru Prasad, Quality Manager

ama Yutaka Okamatsu, Controlle

1/1

9108-10002CV9



608 Industrial Park Dr. Greenville, MI 48838 USA Phone (616) 754-1404 / Fax. (616) 754-0665

January 14, 2016

Quote: 15602

\* Update Part Tag information

- Tooling Prints

\* DXF Format, BOM

- Part Matrix Tag Update

- Etcher Programming

- HMI Programming - PLC Programming

\* Allow for part selection

\* Signal to the operator that the proper checks have been completed. \* Pokeok the fixture set-up

- All required valves, plumbing and wiring.

- Integration with the PLC, HMI, and bar code scanner

to the central server. - Electrical Prints

- Updated Gage Instructions - CMM of details only

Quote based on the assumption existing tooling is in good working condition

\* Note: Tooling to be metric unless it is an Aggressive Tooling Standard Detail.

Cost:

\$23,425.00

030 Budgetary Cost for On Site Technical Support for Kubota 3.8L SCR

Tooling (Agg# 10398/10399)

To Include:

- 2 Technician for 5 Days

\* 3 Days On-Site - Minimum 10 hour days

- Flights

- Tech Daily Allowance

Cost: \$32,000,00

12 Week delivery after receipt of purchase order, 2D drawing(s) and 3D Cad model(s) \* 3D Cad Models to be Parasolid Format if Native Format is UG

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Quote: 15602

January 14, 2016

\* 3D Cad Models to be Step Format for all other Native File Formats

Please reference this quote number on your purchase order.

Thank you for the opportunity to quote this work. Should you have any questions, please feel free to

contact us.

Sincerely.

justin(a)aggtool.com Justin Moore

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January 14, 2016

Quote: 15602 Package: 1836

2-18 Rinkuoraikita, Izumisano Seiko Ogawa, Administrator Tenneco Japan LTD Attn: Guru Prasad Osaka, 598-0048

Guru:

We are pleased to quote as follows:

## Tooling Cost to Process the Kubota 3.8L SCR Assembly

010 Additions to the existing Final Gage (Agg# 10398)

to accommodate the following:

- Kubota# 1,585-1910 / Tenneco# 82351360

- 2D Print: 82351360\_51836044\_CB0\_001\_00\_ASSEMBLY - FULL ASSEMBLY (COMBINE)\_SHEET1 (1.14.16) (QD1836)

- Math File: 82351360\_51836044\_CD0\_001\_00\_ASSEMBLY - FULL ASSEMBLY (COMBINE) (1.14.16) (QD1836)

· Brief Description: Combine Assembly - Similar to BB Variant - Agg letter A

To Include:

- Inlet Decomp Flange Assembly. This assembly will be sub-plate to accommodate for the new geometry with studs.

\* Sub-plate with locators and knobs (Concept similar to Part F)

\*\* Flange Assembly

\*\*\* Hardened tool detail to gauge the flange face

\*\*\* Carriage and rail assembly \*\*\*\* Lock out assembly

\*\*\* Gas shock assembly

\*\*\* Proximity sensor to ensure the slide has been engaged

\*\* Sensor Boss Assembly

\*\*\* Bushing and shaft assembly

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Quote: 15602

\*\*\* Proximity sensor to ensure sensor boss has been engaged

\*\*\* Stanchion mounting details

\*\*\* Hardened and ground tool steel plug

Quick disconnect of electrical

\* Proximity sensor for proper setup

- Outlet Flange Assembly. This assembly will be sub-plate to accommodate for the new geometry.

\* Replace sub-plate base 10398-05 296J

\* Sub-plate with locators and knobs (Concept similar to Part F)

\*\* Flange Assembly

\*\*\* Transfer pins to gage the flange hole true position \*\*\* Hardened tool detail to gauge the flange face

\*\*\* Proximity sensor to ensure the pins have engaged (2 required)

\*\* Sensor Boss Assembly

\*\*\* Bushing and shaft assembly

\*\*\* Proximity sensor to ensure sensor boss has been engaged

\*\*\* Stanchion mounting details

\*\*\* Hardened and ground tool steel plug

Quick disconnect of electrical

\* Proximity sensor for proper setup

- Urea Injector Assembly. Existing tooling will be utilized for this

addition. Common with A/B/L

\* Update Part Tag information \* No Tooling required

Station 9

- Decomp Outlet Sensor Boss Assembly. Existing tooling will be utilized for this addition. Part A (Lower gauging details)

\* No Tooling required

\* Update Part Tag information

- Datum / Non Datum Bracket Assembly. Existing tooling will be utilized for this addition. Identical Bracket to Part B Station 6 / 10

\* No Tooling required

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January 14, 2016

Quote: 15602

\* Update Part Tag information

\* DXF Format, BOM - Tooling Prints

- Part Matrix Tag Update

- Etcher Programming

- HMI Programming - PLC Programming

- Electrical Prints

 Updated Gage Instructions - CMM of details only

Quote based on the assumption inlet decomp clamp/nut is processed similar to existing where no proximity sensor is required for detection.

Also quote based on the assumption existing tooling is in good working condition

Cost:

\$25,665.00

# 020 Additions to the existing Final Leak Tester (Agg# 10399)

to accommodate the following:

- Kubota# 1J585-1910 / Tenneco# 82351360

- 2D Print: 82351360 51836044 CB0 001 00 ASSEMBLY - FULL ASSEMBLY

- Math File: 82351360\_51836044\_CD0\_001\_00\_ASSEMBLY - FULL ASSEMBLY (COMBINE) SHEET1 (1.14.16) (QD1836)

(COMBINE) (1.14.16) (QD1836)

- Brief Description: Combine Assembly - Similar to BB Variant - Agg letter A

To Include:

- Decomp Inlet Flange / Tube Sensor Boss Assembly. This assembly will seal at the flange and sensor face.

\* Sub-plate with locators and knobs (1 required)

\*\* Cylinder with mounting details (2 required 1 Flange / 1 Sensor)

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\*\*\* Safety switch (Flange)



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Quote: 15602

January 14, 2016

\*\* Puck style seal (Sensor)

\*\* O Ring style seal (Flange)

\*\* Quick disconnect of electrical and pneumatics

\*\* Binary selection of proper sub-plate setup

\*\* Proximity sensor to detect torque gun presence for clamp

- Outlet Flange Assembly. This assembly will seal at the flange and sensor face.

\* Sub-plate with locators and knobs (1 required)

\*\* Cylinder with mounting details

\*\* Puck style seal for the sensor boss

\*\* Flat puck seal for the flange

\*\*\* Safety switch

\*\* Quick disconnect of electrical and pneumatics

\*\* Binary selection of proper sub-plate setup

- Urea Injector Assembly. Existing tooling will be utilized for this addition. Common with A/B/F/L/M

\* No Tooling required

\* Update Part Tag information

### Station 9

· Decomp Outlet Sensor Boss Assembly. Existing tooling will be utilized for this

addition. Part A (Lower sealing details)

\* No Tooling required

\* Update Part Tag information

- Datum / Non Datum Bracket Assembly. Existing tooling will be utilized for this

addition. Identical Bracket to Part A/F/L.

\* No Tooling required

\* Update Part Tag information

## Station 10

- Decomp Tube Assembly. Existing tooling will be utilized for this

addition. Utilize Part A/B/F/L/M locator. No Clamp required to be detected

\* No Tooling required