McNeilus
GET IN.

SB-10058517-4212

June 2nd, 2015

To:

Associate Administrator for Enforcement

National Highway Traffic Safety Administration

Attention: Early Warning Division NVS-217
1200 New Jersey Avenue SE
Washington, DC 20590

From:

McNeilus Truck and Manufacturing

Attn: Warranty Supervisor

524 East Highway Street
P.O. Box 70
Dodge Center, MN 55927

Pursuant to Federal Regulation 579.5 reporting requirements we have 1 submittal for the month of May, 2015.

- **Transmission Adaption Assembly Repair Procedures**

1900 Chicago Dr. Southwest
Grand Rapids, MI 49519

SB-10058517-4212

SUBJECT: **Transmission Adaptation Assembly Repair Procedures**

MODELS AFFECTED: Valley Truck Parts Remanufactured Allison HD4560 Transmission

Introduction:
Valley Truck Parts has identified in some Oshkosh S-Series front discharge redi mix glider units a potential concern with transmission gear adapter assembly adaptation bolts breaking. Transmissions in question were built between January 1, 2015 and February 16, 2015. Transmissions built during this period may have a heavy layer of paint on the torque converter cover, causing tolerances to change between the torque converter cover and the adapter ring at operating temperatures. Valley Truck Parts has contacted Oshkosh with these findings and has initiated the following repair procedures. This mishap in the transmission painting process has no reflection on Oshkosh Corporation or their products, it had taken place in the remanufacturing process prior to transmissions being shipped from Valley Truck Parts. Valley Truck Parts apologizes for all inconveniences that occur from our oversight in this situation.

Prior to repairs, please contact Valley Truck Parts for replacement hardware:

Valley Truck Parts Inc.
1-800-783-8300 Ext. 188
Contact: Dan Kanwischer
dank@valleytruckparts.com

Repair and Parts Information:
Repair procedures will consist of removing the transmission from the engine, removing the gear adapter assembly from the torque converter cover and cleaning the mating surfaces of the torque converter cover and gear adapter. Reinstallation of the gear adapter assembly with new hardware (provided by Valley Truck Parts) and reinstallation of the transmission to engine. These steps will be necessary to remove any material or coatings between the torque converter and adaptation components that could compromise proper mating properties.

Upon removal of the transmission assembly from the engine the following steps must be performed.

1. Remove 12 bolts from gear adapter assembly to torque converter cover and discard the 12 bolts.
2. Remove gear adapter assembly from torque converter cover.
3. Using a lacquer thinner and a wire brush or scotch pad, remove any paint from the mating surfaces of the gear adapter assembly and the torque converter cover. Only the mating areas are required to be cleaned not the entire torque converter cover. Do not use any type of grinder to remove material as damage to components may occur.
4. Use air to blow dry the surfaces and to clear the torque converter bolt holes in the converter cover of any debris.
5. With all surfaces clean and dry, reinstall the gear adapter assembly onto the torque converter.
6. Install 12 new bolts to secure the gear adapter to the torque converter cover.
7. Torque the 12 bolts to 27 lb-ft.
8. Reinstall the transmission assembly as necessary.

Claim Process:
For labor and material reimbursement use the attached form and send to:
Attn: Dan Kanwischer, Allison Department, Valley Truck Parts Inc.
Fax: 1-616-389-1081
Email: dank@valleytruckparts.com

CLAIM APPLICATION

Customer:			
Address:		**City:**	
State:	**ZIP:**		
Phone:		**Fax:**	
VIN (17):		**Vehicle In Service Date:**	
Unit #:	**Make:** Oshkosh	**Mileage:**	
Model:	S - Series Front Discharge Mixer	**Year:**	

Engine Make: **Engine Model:**

Transmission Information:

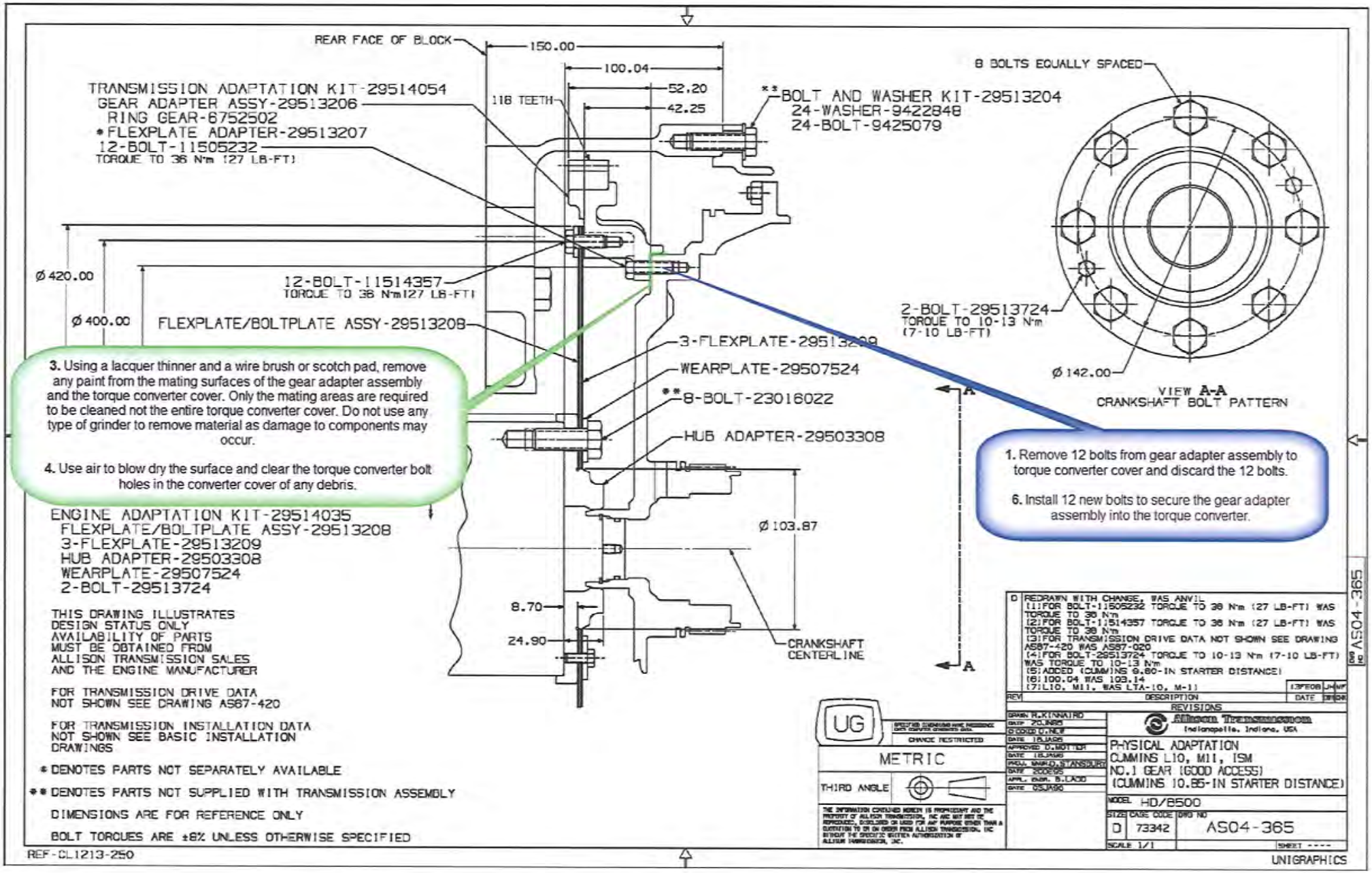
Transmission SN:

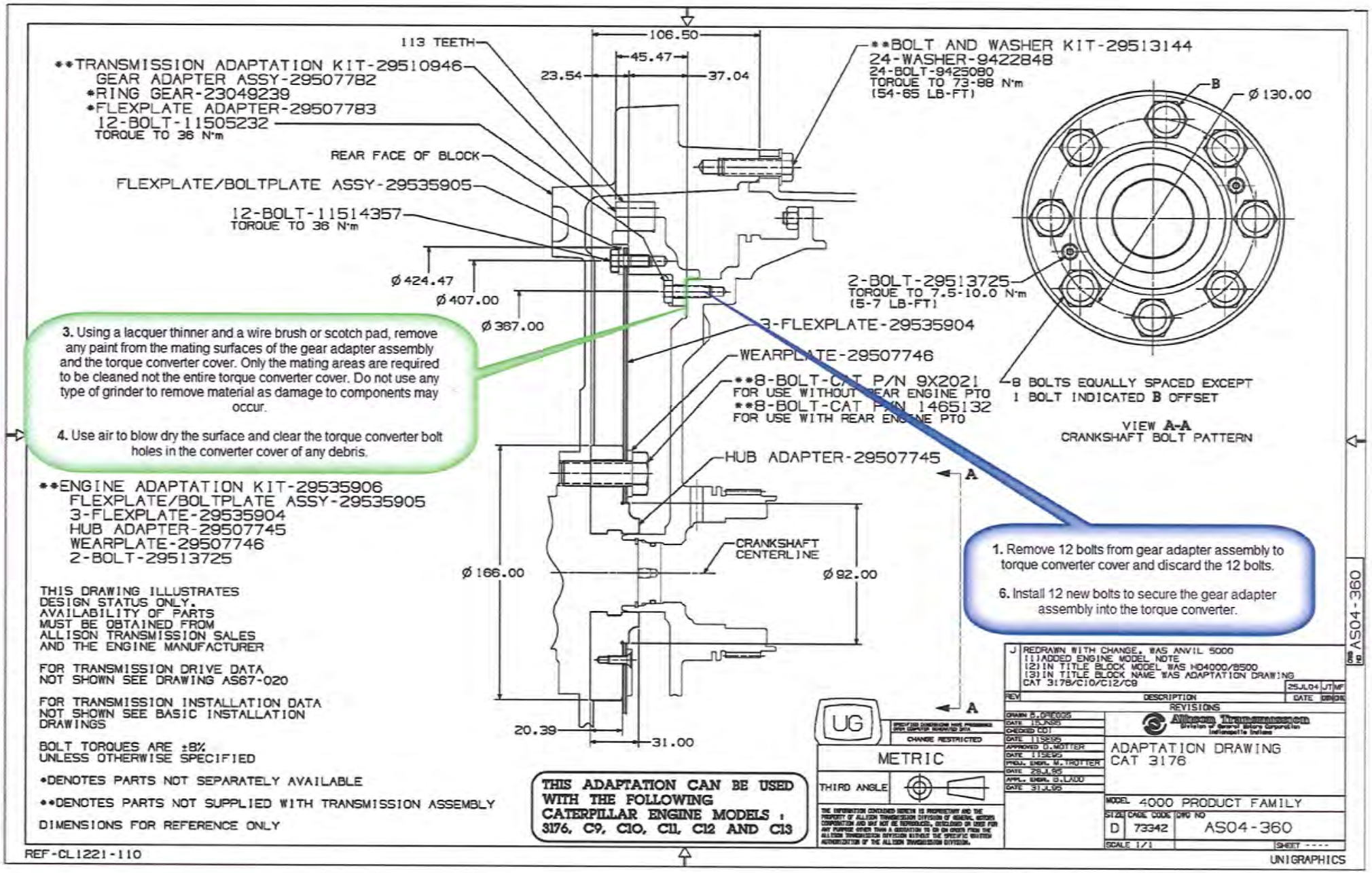
Transmission Model:

Complaint: Excessive coating of paint on torque converter surface compromising adaptaion component installation properties.

Labor Info

labor time discription / Materials Used	Quantity	Sold Price			Total


REAR FACE OF BLOCK
150.00
100.04
52.20
42.25
118 TEETH
TRANSMISSION ADAPTATION KIT-29514054
GEAR ADAPTER ASSY-29513206
RING GEAR-6752502
*FLEXPLATE ADAPTER-29513207
12-BOLT-11505232
TORQUE TO 36 N·m (27 LB-FT)
**BOLT AND WASHER KIT-29513204
24-WASHER-9422848
24-BOLT-9425079
8 BOLTS EQUALLY SPACED
Ø420.00
Ø400.00
12-BOLT-11514357
TORQUE TO 36 N·m(27 LB-FT)
FLEXPLATE/BOLTPLATE ASSY-29513208
3-FLEXPLATE-29513209
WEARPLATE-29507524
**8-BOLT-23016022
HUB ADAPTER-29503308
2-BOLT-29513724
TORQUE TO 10-13 N·m
(7-10 LB-FT)
Ø142.00
VIEW A-A
CRANKSHAFT BOLT PATTERN
A
A
Ø103.87
8.70
24.90
CRANKSHAFT
CENTERLINE
3. Using a lacquer thinner and a wire brush or scotch pad, remove any paint from the mating surfaces of the gear adapter assembly and the torque converter cover. Only the mating areas are required to be cleaned not the entire torque converter cover. Do not use any type of grinder to remove material as damage to components may occur.
4. Use air to blow dry the surface and clear the torque converter bolt holes in the converter cover of any debris.
1. Remove 12 bolts from gear adapter assembly to torque converter cover and discard the 12 bolts.
6. Install 12 new bolts to secure the gear adapter assembly into the torque converter.
ENGINE ADAPTATION KIT-29514035
FLEXPLATE/BOLTPLATE ASSY-29513208
3-FLEXPLATE-29513209
HUB ADAPTER-29503308
WEARPLATE-29507524
2-BOLT-29513724
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON TRANSMISSION SALES AND THE ENGINE MANUFACTURER
FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DRAWING AS67-420
FOR TRANSMISSION INSTALLATION DATA NOT SHOWN SEE BASIC INSTALLATION DRAWINGS
* DENOTES PARTS NOT SEPARATELY AVAILABLE
** DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY
DIMENSIONS ARE FOR REFERENCE ONLY
BOLT TORQUES ARE ±8% UNLESS OTHERWISE SPECIFIED
D REDRAWN WITH CHANGE, WAS ANVIL
(1)FOR BOLT-11505232 TORQUE TO 36 N·m (27 LB-FT) WAS TORQUE TO 38 N·m
(2)FOR BOLT-11514357 TORQUE TO 36 N·m (27 LB-FT) WAS TORQUE TO 38 N·m
(3)FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DRAWING AS67-420 WAS AS67-020
(4)FOR BOLT-29513724 TORQUE TO 10-13 N·m (7-10 LB-FT) WAS TORQUE TO 10-13 N·m
(5)ADDED (CUMMINS 9.80-IN STARTER DISTANCE)
(6)100.04 WAS 103.14
(7)L10, M11, WAS LTA-10, M-11
REV DESCRIPTION DATE
REVISIONS
UG
CHANGE RESTRICTED
METRIC
THIRD ANGLE
DRAWN R.KINNAIRD
CHKD D.NEF
APPROVED D.MOTTER
PROJ. MANAGER STANSBURY
APPL. ENGR. B.LACO
Allison Transmission
Indianapolis, Indiana, USA
PHYSICAL ADAPTATION
CUMMINS L10, M11, ISM
NO.1 GEAR (GOOD ACCESS)
(CUMMINS 10.85-IN STARTER DISTANCE)
MODEL HD/B500
SIZE D
CAGE CODE 73342
DWG NO AS04-365
SCALE 1/1
SHEET ----
REF-CL1213-250
UNIGRAPHICS
AS04-365


113 TEETH
106.50
45.47
23.54
37.04
**TRANSMISSION ADAPTATION KIT-29510946
GEAR ADAPTER ASSY-29507782
*RING GEAR-23049239
*FLEXPLATE ADAPTER-29507783
12-BOLT-11505232
TORQUE TO 36 N·m
REAR FACE OF BLOCK
FLEXPLATE/BOLTPLATE ASSY-29535905
12-BOLT-11514357
TORQUE TO 36 N·m
Ø 424.47
Ø 407.00
Ø 367.00
**BOLT AND WASHER KIT-29513144
24-WASHER-9422848
24-BOLT-9425080
TORQUE TO 73-88 N·m
(54-65 LB-FT)
B
Ø 130.00
2-BOLT-29513725
TORQUE TO 7.5-10.0 N·m
(5-7 LB-FT)
3-FLEXPLATE-29535904
WEARPLATE-29507746
**8-BOLT-CAT P/N 9X2021
FOR USE WITHOUT REAR ENGINE PTO
**8-BOLT-CAT P/N 1465132
FOR USE WITH REAR ENGINE PTO
8 BOLTS EQUALLY SPACED EXCEPT
1 BOLT INDICATED B OFFSET
VIEW A-A
CRANKSHAFT BOLT PATTERN
HUB ADAPTER-29507745
A
CRANKSHAFT
CENTERLINE
Ø 166.00
Ø 92.00
20.39
31.00
A
3. Using a lacquer thinner and a wire brush or scotch pad, remove any paint from the mating surfaces of the gear adapter assembly and the torque converter cover. Only the mating areas are required to be cleaned not the entire torque converter cover. Do not use any type of grinder to remove material as damage to components may occur.
4. Use air to blow dry the surface and clear the torque converter bolt holes in the converter cover of any debris.
1. Remove 12 bolts from gear adapter assembly to torque converter cover and discard the 12 bolts.
6. Install 12 new bolts to secure the gear adapter assembly into the torque converter.
**ENGINE ADAPTATION KIT-29535906
FLEXPLATE/BOLTPLATE ASSY-29535905
3-FLEXPLATE-29535904
HUB ADAPTER-29507745
WEARPLATE-29507746
2-BOLT-29513725
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON TRANSMISSION SALES AND THE ENGINE MANUFACTURER
FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DRAWING AS67-020
FOR TRANSMISSION INSTALLATION DATA NOT SHOWN SEE BASIC INSTALLATION DRAWINGS
BOLT TORQUES ARE ±8% UNLESS OTHERWISE SPECIFIED
*DENOTES PARTS NOT SEPARATELY AVAILABLE
**DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY
DIMENSIONS FOR REFERENCE ONLY
THIS ADAPTATION CAN BE USED WITH THE FOLLOWING CATERPILLAR ENGINE MODELS : 3176, C9, C10, C11, C12 AND C13
J REDRAWN WITH CHANGE, WAS ANVIL 5000
(1)ADDED ENGINE MODEL NOTE
(2)IN TITLE BLOCK MODEL WAS HD4000/8500
(3)IN TITLE BLOCK NAME WAS ADAPTATION DRAWING
CAT 3176/C10/C12/C9
25JL04 JT MF
REV DESCRIPTION DATE DR DR
REVISIONS
UG
CHANGE RESTRICTED
METRIC
THIRD ANGLE
DRAWN S.CREGGS
DATE 15JN95
CHECKED CDT
DATE 11SE95
APPROVED D.MOTTER
DATE 11SE95
PROJ. ENGR. M.TROTTER
DATE 28JL95
APPL. ENGR. S.LADD
DATE 31JL95
Allison Transmission
Division of General Motors Corporation
Indianapolis Indiana
ADAPTATION DRAWING
CAT 3176
MODEL 4000 PRODUCT FAMILY
SIZE D
CAGE CODE 73342
DWG NO AS04-360
SCALE 1/1
SHEET ----
AS04-360
REF-CL1221-110
UNIGRAPHICS