

Part 573 Safety Recall Report

20V-085

Manufacturer Name : Vermeer Manufacturing Company

Submission Date : SEP 02, 2020

NHTSA Recall No. : 20V-085

Manufacturer Recall No. : IK3922



Manufacturer Information :

Manufacturer Name : Vermeer Manufacturing Company

Address : 1210 VERMEER ROAD EAST

PO BOX 200 PELLA IA 50219-0200

Company phone : 641-628-3141

Population :

Number of potentially involved : 7,986

Estimated percentage with defect : 26 %

Vehicle Information :

Vehicle 1 : 2016-2020 Vermeer BC1000XL

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : Using various manufacturing documents and drawings, research is being conducted to identify wheel assemblies on single-axle (BC1000XL, BC1200XL, BC1500, BC1800XL) and dual-axle (AX19) brush chippers provided by the supplier that did not meet drawing specifications on part number 163647428 and part number 163647345. Those specific time periods will be cross referenced to the build dates and serial number ranges of brush chippers built.

Brush chippers that are not configured with part number 163647428 and part number 163647345 are excluded from this recall.

30,200 total units made of these models.

Production Dates : AUG 01, 2016 - FEB 07, 2020

VIN Range 1 : Begin : 1VRY11199C1017283 **End :** 1VRY11197G1023928

Not sequential

Vehicle 2 : 2016-2020 Vermeer AX19

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : Using various manufacturing documents and drawings, research is being conducted to identify wheel assemblies on single-axle (BC1000XL, BC1200XL, BC1500, BC1800XL) and dual-axle (AX19) brush chippers provided by the supplier that did not meet drawing specifications on part number 163647428 and part number 163647345. Those specific time periods will be cross referenced to the build dates and serial number ranges of brush chippers built.

Brush chippers that are not configured with part number 163647428 and part number 163647345 are excluded from this recall.

30,200 total units made of these models.

Production Dates : AUG 01, 2016 - FEB 07, 2020

VIN Range 1 : Begin : 1VRL1925XG1000101 End : 1VRL19257L1000342

Not sequential

VIN Range 2 : Begin : 1VRL1925XG1000101 End : 1VRL19257L1000342

Not sequential

Vehicle 3 : 2016-2020 Vermeer BC1500

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : Using various manufacturing documents and drawings, research is being conducted to identify wheel assemblies on single-axle (BC1000XL, BC1200XL, BC1500, BC1800XL) and dual-axle (AX19) brush chippers provided by the supplier that did not meet drawing specifications on part number 163647428 and part number 163647345. Those specific time periods will be cross referenced to the build dates and serial number ranges of brush chippers built.

Brush chippers that are not configured with part number 163647428 and part number 163647345 are excluded from this recall.

30,200 total units made of these models.

Production Dates : AUG 01, 2016 - MAR 13, 2020

VIN Range 1 : Begin : 1VR2161V9L1011001 End : 1VR2181V4G1008315

Not sequential

Vehicle 4 : 2016-2020 Vermeer BC1200XL

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : Using various manufacturing documents and drawings, research is being conducted to identify wheel assemblies on single-axle (BC1000XL, BC1200XL, BC1500, BC1800XL) and dual-axle (AX19) brush chippers provided by the supplier that did not meet drawing specifications on part number 163647428 and part number 163647345. Those specific time periods will be cross referenced to the build dates and serial number ranges of brush chippers built.

Brush chippers that are not configured with part number 163647428 and part number 163647345 are excluded from this recall.

30,200 total units made of these models.

Production Dates : AUG 01, 2016 - FEB 07, 2020

VIN Range 1 : Begin : 1VR7141Y691000101 End : 1VR7141Y6B1000377

Not sequential

VIN Range 2 : Begin : 1VR7141Y8B1000378 End : 1VR7141Y7G1003022

Not sequential

Vehicle 5 : 2008-2012 Vermeer BC1800XL

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : Using various manufacturing documents and drawings, research is being conducted to identify wheel assemblies on single-axle (BC1000XL, BC1200XL, BC1500, BC1800XL) and dual-axle (AX19) brush chippers provided by the supplier that did not meet drawing specifications on part number 163647428 and part number 163647345. Those specific time periods will be cross referenced to the build dates and serial number ranges of brush chippers built.

Brush chippers that are not configured with part number 163647428 and part number 163647345 are excluded from this recall.

30,200 total units made of these models.

Production Dates : MAY 23, 2008 - APR 24, 2012

VIN Range 1 : Begin : 1VRY132Z981002381 End : 1VRY142Z2C1002978

Not sequential

VIN Range 2 : Begin : 1VRY131Z9C1003217 End : 1VRY131Z2C1003219

Not sequential

Description of Defect :

Description of the Defect : Wheels with incorrect lug nut taper angle were supplied to Vermeer and installed on trailer.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Wheel lug nut may loosen, and loss of wheel may occur while traveling on public highway.

Description of the Cause : NR

Identification of Any Warning that can Occur : Loose or missing lug nuts.

Involved Components :

Component Name 1 : NR

Component Description : NR

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : Midtown Tire Company

Address : 109 East Oskaloosa St
Pella Iowa 50219

Country : United States

Chronology :

10-Jan-2020 - Field report 1 - Dealer reported BC1500 SN 009002 loss of wheel in Australia to Vermeer. Property damage, no personal injuries.

13-Jan-2020 - Engineering started preliminary investigation into failure.

15-Jan-2020 - Engineering notifies Product Safety of field report 1 and begins investigation into supplier issue.

20-Jan-2020 - Contacted supplier via email inquiring about rim specifications, along with a copy of rim drawing.

21-Jan-2020 - Product Safety provides direction to engineering for further investigation.

29-Jan-2020 - Received rims from an Australia dealer who had examples of different rim configurations in their inventory.

30-Jan-2020 – Product Safety and engineering meet to discuss preliminary investigation findings.

03-Feb-2020 – Product Safety and engineering meet with Vice President of Product Development to provide preliminary investigation findings.

05-Feb-2020 – Product Safety and engineering meet to discuss update to preliminary investigation findings.

06-Feb-2020 – Engineering performed shop fit-up test on various chipper axles.

07-Feb-2020 – Field report 2 - Dealer reported BC1500 SN 009319 loss of wheel in Iowa to Vermeer. Property damage, no personal injuries.

11-Feb-2020 – Warranty claim review for reports of wheel loss or loose lug nut report.

Description of Remedy :

Description of Remedy Program : A field campaign is being initiated to send two interim notices to brush chipper owners. Interim notice 1 will be sent to owners of brush chippers built between Aug 1, 2016 to Feb 7, 2020 including instructions to perform a daily inspection of lug nut condition and proper torque. Vermeer will re-notify brush chipper owners of the repair kit when it is available. Interim notice 2 will be sent to owners of brush chippers built between 2011 and Aug 1, 2016 which may have purchased replacement brush chipper wheels after Jul 2016. The notice includes instructions to check for defective wheels. If a defective wheel is found, owners will be instructed to daily inspect lug nut condition and proper torque. Brush chipper owners that have a non-defective wheel and notify Vermeer of their findings, Vermeer will issue a Vermeer \$50 USD parts credit certificate.

Jun 3, 2020: For Model BC1500 only, Vermeer will provide necessary parts and instructions to its authorized dealers to resolve the defect issue. Parts and instructions are internally known as IK3922. Upon receipt of warranty claim from dealers indicating field remedy kit has been installed, Vermeer will reimburse dealers for parts and labor. See comments to NHTSA staff below regarding other Models.

Jun 16, 2020: For Models BC1000XL, BC1200XL, BC1800XL and AX19, Vermeer will provide necessary parts and instructions to its authorized dealers to resolve the defect issue. Parts and instructions are internally known as IK3940, IK3941, IK3973, IK3942 and IK3939. Upon receipt of warranty claim from dealers indicating field remedy kit has been installed, Vermeer will reimburse dealers for parts and labor.

Field remedy notification, known internally as IK3961, will be issued to notify owners of Models BC1000XL, BC1200XL, BC1500 and BC1800XL built from 2006–2016. IK3961 will provide updated tire specification placard, new safety sign and supplemental operator's and maintenance manual.

How Remedy Component Differs from Recalled Component :

03 June, 2020: For Model BC1500 only, Vermeer Corporation has identified a field remedy to provide replacement 17.5" wheel/tire assembly, new wheel maintenance safety sign, tire specification placard, and supplemental operator's and maintenance manual with wheel maintenance instructions, internally known as IK3922. The defective wheels in the field were a 16" wheel/tire assembly. For Model BC1000XL, Model AX19, BC1200XL and BC1800XL, a field remedy has not yet been identified. Vermeer continues to work with supplier(s) for an acceptable solution. See comments to NHTSA staff below regarding other Models involved.

16 Jun 2020: For Models BC1000XL, BC1200XL, BC1800XL and AX19, Vermeer Corporation has identified that the field remedy will be the same 17.5" wheel/tire assembly, new wheel maintenance safety sign, tire specification placard, and supplemental operator's and maintenance manual with wheel maintenance instructions, same as field remedy for Model BC1500.

11 Aug 2020: For Models BC1000XL, BC1200XL, BC1500 and BC1800XL built from 2006–2016. IK3961 will provide updated tire specification placard, new safety sign and supplemental operator's and maintenance manual.

For BC1200XL (S/N 101-377), Vermeer Corporation has identified that the field remedy will be a replacement 16x6" wheel/tire assembly, new wheel maintenance safety sign, and updated operator's and maintenance manual with wheel maintenance instructions.

Identify How/When Recall Condition was Corrected in Production :

Production units of the above identified four models of trailers - brush chippers were placed on hold in early February 2020. Wheel inventory is being inspected to identify wheels not to drawing specifications.

03 June, 2020: For Model BC1500 brush chippers only, the production line was changed through the engineering change notice process to install either a different 16" wheel/tire assembly with a corrected lug nut contact area that were tested to SAE J1204 for fatigue resistance or 17.5" wheel/tire assembly. In addition, new wheel maintenance safety sign, tire specification placard, and provide updated operator's manual and maintenance manual with maintenance instructions were installed on production machines.

16 Jun 2020: Due to a manufacturing variance by Carlstar as described in NHTSA 20V344, Model BC1500, as well as Models BC1000XL, BC1200XL and AX19, through the engineering change notice process will install a 17.5" wheel/tire assembly. Model BC1800XL was not offered in current production with the defective supplier wheel at the time of issuance of the initial notification to NHTSA for this recall.

Recall Schedule :

Description of Recall Schedule : Interim notice to owner being developed for release to owners and dealers by early March 2020.

The list below coincides with the items below it.

- 1) dealer notification published on factory-to-dealer internet site;
- 2) a report to each dealer identifying affected machines and owners in their area of responsibility emailed on;
- 3) owner notification letters mailed via US Postal Service certified/

registered mail on:

Translated owner notification letters included, where official/primary language of country is not English.

Model BC1500 (IK3922) only,

- 1) 06/18/2020
- 2) 06/18/2020
- 3) 07/06/2020

Models BC1000XL (IK3940), BC1200XL s/n 378-3022 (IK3941), BC1800XL (IK3942) and AX19 (IK3939)

- 1) 07/16/2020
- 2) 07/16/2020
- 3) 07/30/2020

Owners of Models BC1000XL, BC1200XL, BC1500 and BC1800XL manufactured from 2006 - 2016 relating to purchase of replacement wheels, Vermeer Corp. will issue field remedy (IK3961)

- 1) 08/26/2020
- 2) 08/26/2020
- 3) 09/09/2020

There are approximately 5100 brush chippers that were manufactured from 2006 – 2016 where owners will be notified.

Owners of Models BC1200XL s/n 101-377 (IK3973),

- 1) 08/26/2020
- 2) 08/26/2020
- 3) 09/09/2020

Planned Dealer Notification Date : JUN 18, 2020 - AUG 26, 2020

Planned Owner Notification Date : JUL 06, 2020 - SEP 09, 2020

* NR - Not Reported