



Reference Number	Bulletin 01 2021
Affected Product	375-9988 Hydraulic Hose Assembly in 16M3/16/18M3 and 18 Series Motor Graders
Risks Identified	Potential risk of personal injury and/or property damage due to a rubbing induced wear failure of the hose.
Release Date	March 5, 2021

Problem Overview

The 375-9988 Hydraulic Hose has been found to be making contact with other machine parts/hoses at different positions along the length of the hose resulting in the potential for rubbing induced wear failure. This is occurring with Factory installed hoses as well as Dealer/Customer installed hoses.

Hose wear that has resulted from rubbing contact can occur anywhere along the length of the hose depending on how that hose interacts with other parts/hoses on the machine.

Operation of a machine with an excessively worn hose can lead to hose failure and result in personal injury and/or property damage.

To reduce the risk of an unexpected hose failure, this bulletin outlines recommendations for additional inspections of the 375-9988 Hydraulic Hose and other hoses that are in close contact.



Illustration 1. Hose has worn to the point of failure.

Actions Required:

1. Either before or at the next scheduled service, perform a visual inspection of the 375-9988 Hydraulic Hose. As this hose is routed through confined regions of the machine, use the attached 3D views to aid identification of the 375-9988 Hydraulic Hose route.
2. If the 375-9988 Hydraulic Hose has been contacting other components or hoses, inspect closely for chafing and damage to the 375-9988 Hydraulic Hose, and any other hoses in contact. If hose reinforcing wires are exposed, the hose cover is cracked, or a fluid weep is evident, the affected hose(s) must be replaced.
3. Inspect all hose clamps to ensure the number of clamps is correct [8 in total] and the orientation, condition and security of hose clamping [fasteners, clips, and grommets] and replace any defective components. A hose must be a neat fit in a clamp to prevent vibratory chafing during machine operation.
4. The Hydraulic Hose route between adjacent clamping points should prevent contact with any other part. If hose rub points cannot be corrected by adjusting the position of clamps or end fittings, contact your Cat dealer representative for advice.
5. At the next service interval re-inspect the installed hose for possible hose contact and rectify, as necessary.
6. It is recommended to document the details of all inspections performed and notify your Cat Dealer representative of any 375-9988 Hydraulic Hose contact issues.

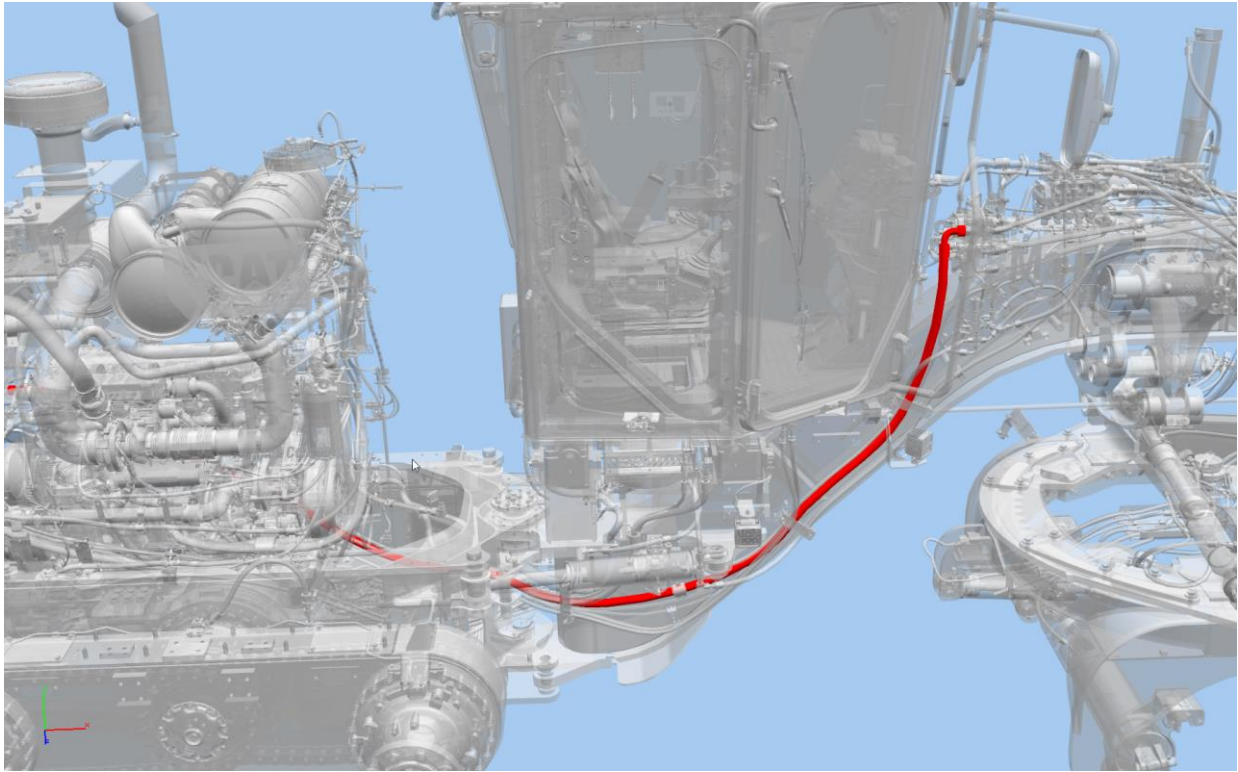


Illustration 2. Hose routing through the front frame of the machine.

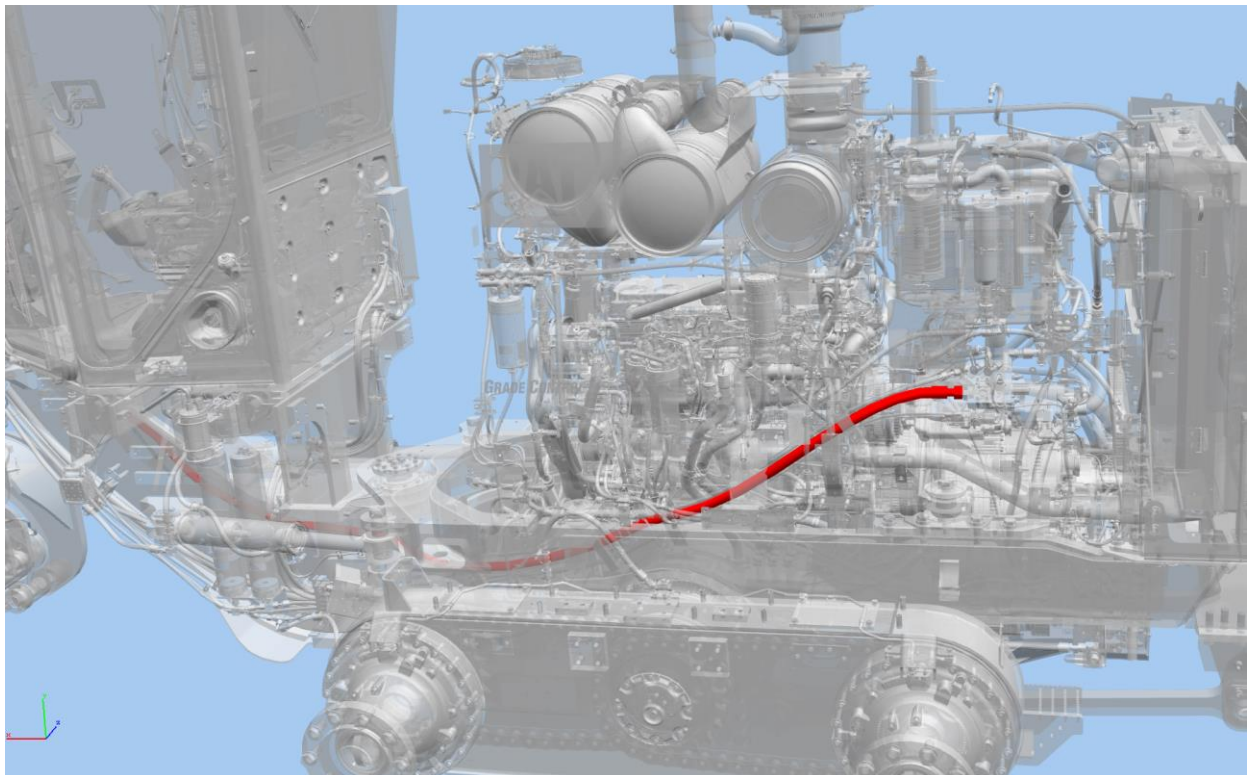


Illustration 3. Hose routing through the rear frame of the machine.



Illustration 4 is an example of the possible wear locations/chafe points that can be evident on the 375-9988 Hose.

This bulletin is to inform you of the recommendations of the supplier in respect of issues dealt with in the bulletin and should not be used as specific advice in respect of any particular events. Advice from a qualified repairer should be sought in respect of any particular events and Hastings Deering (Australia) Ltd accepts no responsibility for any loss or damage occasioned by a party using this bulletin.