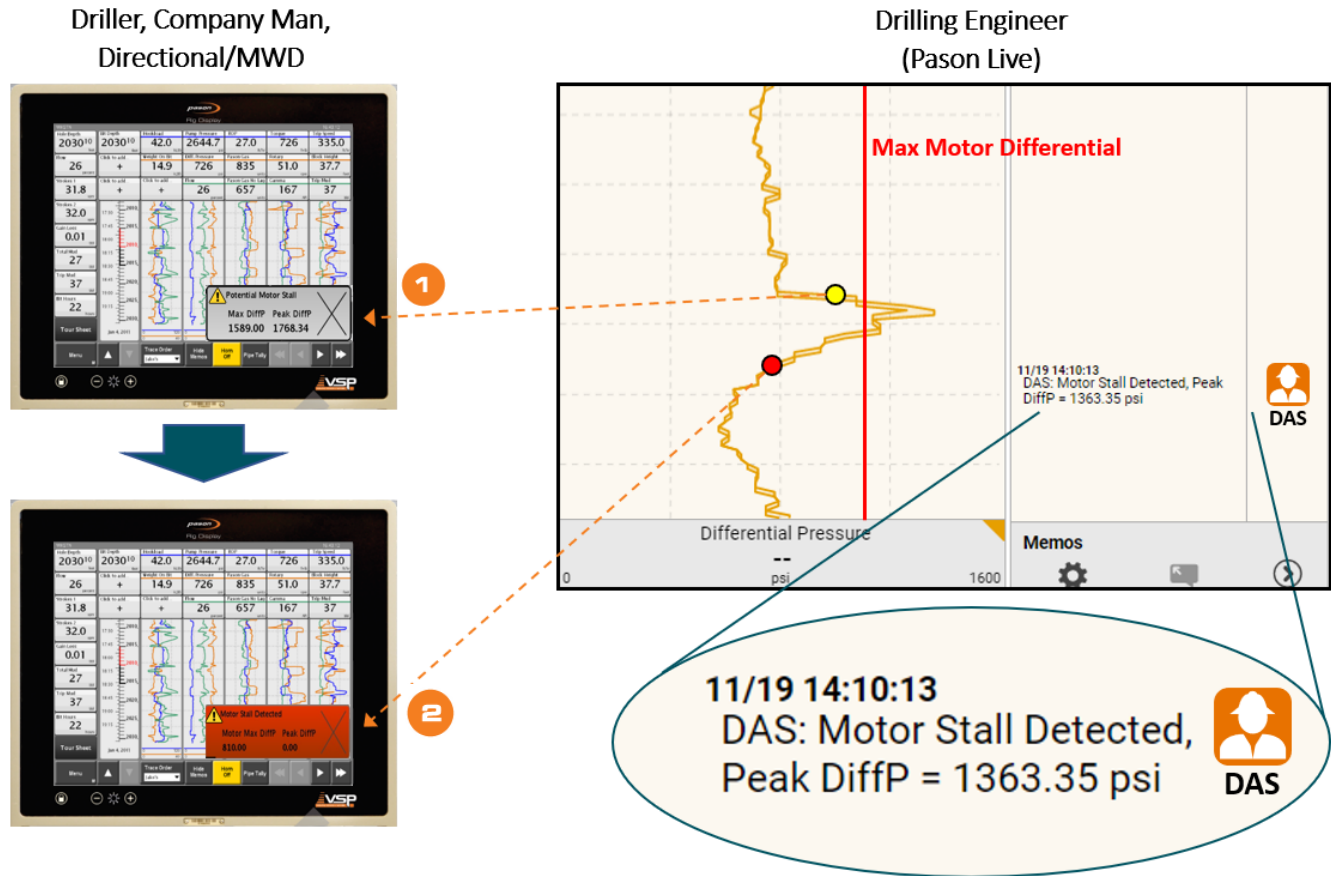




Automated Alerts for Rigsite Personnel and the Office

ExxonMobil DAS™ automatically detects and alerts when there is a motor stall. A memo with additional information is generated for historical reference, and to monitor frequency of stalls. This information can be used to modify drilling parameters, to prolong motor life, and potentially save a costly trip.



- 1 **Potential Motor Stall** – An alert is shown on rigsite workstations, and automatically disappears if this is not a true stall. The false alarm rate is less than 5%.
- 2 **Motor Stall Detected** – The alert turns red, and displays the maximum differential pressure that was reached during the stall compared to motor rating. A memo is added to the EDR for local and Pason Live reporting.

ExxonMobil DAS is technology licensed from ExxonMobil Upstream Research Company and deployed on Pason's AutoDriller technology platform for rigs with brakehandle or AC controlled drawworks.

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