

Williams Shaun

From: Fox Matthew
Sent: Friday, February 21, 2020 1:57 PM
To: Williams Shaun
Cc: Budinski Michael
Subject: CEN20LA020 - Tyler, TX - Materials Laboratory Examination
Attachments: IMG_9849.JPG; IMG_9959.JPG; IMG_9962.JPG; IMG_9963.JPG; IMG_9964.JPG

Shaun,

Pictures of the submitted oil line from the subject investigation are attached. The external sheath was damaged near one end, exposing the underlying stainless steel braided reinforcement. The sheath was removed from the damaged area, and no damage to the braided reinforcement was observed. Oil stains on the interior surface of the exterior sheath were limited to the area around the crack, consistent with an external source for the oil stains. A plug was threaded onto the fitting near the damaged area, and the damaged end was submerged in water while holding an air hose to the fitting at the other end. No bubbles emerged from the submerged portion of the hose. Subsequently, the plug on the submerged fitting was loosened, and bubbles emanated from the fitting with the loose plug, thereby confirming the test pressurization of the line was sufficient to cause bubbles to form if there had been a leak in the damaged area. Additionally, a borescope was inserted into the oil line, and no damage to the liner was detected visually up to the area of external sheath damage. As a result of the exam, no evidence of a leak from the damaged area of the oil line was detected.

Thank you,
Matt



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