

VESSEL BASED SUBSTRUCTURE REMOVAL

2.6m Diameter Pile Severance with xcalibre Abrasive Cutting Solution

claxton®

The Challenge

Operating offshore Congo, Claxton were engaged to carry out the internal cutting of eight subsea piles, each with a diameter of 2.6 m. All cutting and recovery operations were performed from a heavy lift vessel (HLV), with cuts required to be executed internally at 0.5 m above the mudline. Due to variations in pile installation depths, cut elevations differed for each pile. This required adjustments to the equipment setup for each operation, as well as careful control of the cutting process to ensure no damage to the adjacent subsea template.

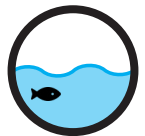
The Solution

Claxton provided our Internal Leg Cutter (ILC), a robust, reliable and field proven tool used as part of our xcalibre Abrasive Cutting Solutions package. The ILC has a fixed upper body, a rotating lower nozzle assembly and centralising pins, for optimum tool alignment and stability before and after cutting. The tool was deployed into the pile using the vessel crane until the spreader beam landed on the pile top, while the rigging was adjusted to achieve the required cut elevation. Using abrasive material, a full 360° circumferential cut was completed on the pile, while ensuring no damage to the surrounding subsea template.

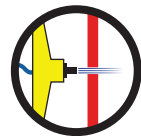
The Result

Claxton successfully completed the internal cutting and recovery preparation of all eight subsea piles safely and efficiently. The flexibility of the ILC and adjustable deployment arrangement enabled precise positioning of each cut at the required elevation, 0.5 m above the mudline. The abrasive cutting process delivered clean, full circumferential cuts on every pile while maintaining protection of the adjacent subsea template throughout operations. By utilising Claxton's xcalibre solution with proven cutting technology and experienced offshore execution, we minimised operational risk, reduced vessel time and ensured the project was completed in line with the client's requirements.

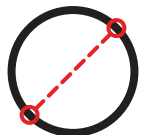
The Project in Numbers



40m Water Depth



8 Abrasive Cuts Completed



2.6m Diameter &
50mm Wall Thickness



8 Hours - Avg. Cut Time

xcalibre Abrasive Cutting Solution on Vessel Deck Pre Deployment



Four of the Abrasively Severed Piles in Transport Holding Frame

