

TECHNICAL INSIGHTS

UP TO 6-YRS
WITH ALETEK
EXHAUST KIT

CASE STUDY: KOMATSU 830E EXHAUST RELIABILITY TEST

 **ALETEK**

1

THE PROBLEM:
830E EXHAUST FAILURE
COMPROMISED EXHAUST DURABILITY

PROBLEM: COMPROMISED EXHAUST DURABILITY

An Aletek client in Central Queensland wasn't getting the product lifecycle they expected from their 830E exhaust systems. Component failure, unplanned downtime and additional financial costs were pain points that disrupted haul truck efficiency. This client needed an exhaust system that could satisfy the demands of operational conditions.



2

**THE SOLUTION:
830E EXHAUST UPGRADE
EXTENDED DURABILITY**

TECHNICAL INSIGHTS

ONSITE SOLUTION: ALETEK OEM EXHAUST UPGRADE

Aletek's direct-fit exhaust upgrade for the Komatsu 830E offers improvements to known OEM fatigue zones for durability and extended product lifecycle. This gives peace of mind and prevents unplanned downtime and maintenance costs. Aletek exhaust parts are compatible with OEM systems.



830E ALETEK EXHAUST: RELIABILITY TIMELINE

LOCATION: CENTRAL QLD MINE SITE

ASSET: KOMATSU 830E

SCOPE: FULL ALETEK EXHAUST KIT

01

0 HOURS

20 Oct 2016

Full exhaust system
fitted to client's 830E

02

~24,000 HOURS

Mid to late 2020

Engine rebuild
Exhaust in great condition

4 years in service

03

~27,000 HOURS

12 May 2021

Exhaust inspected
Performing strongly

4.5 years in service

04

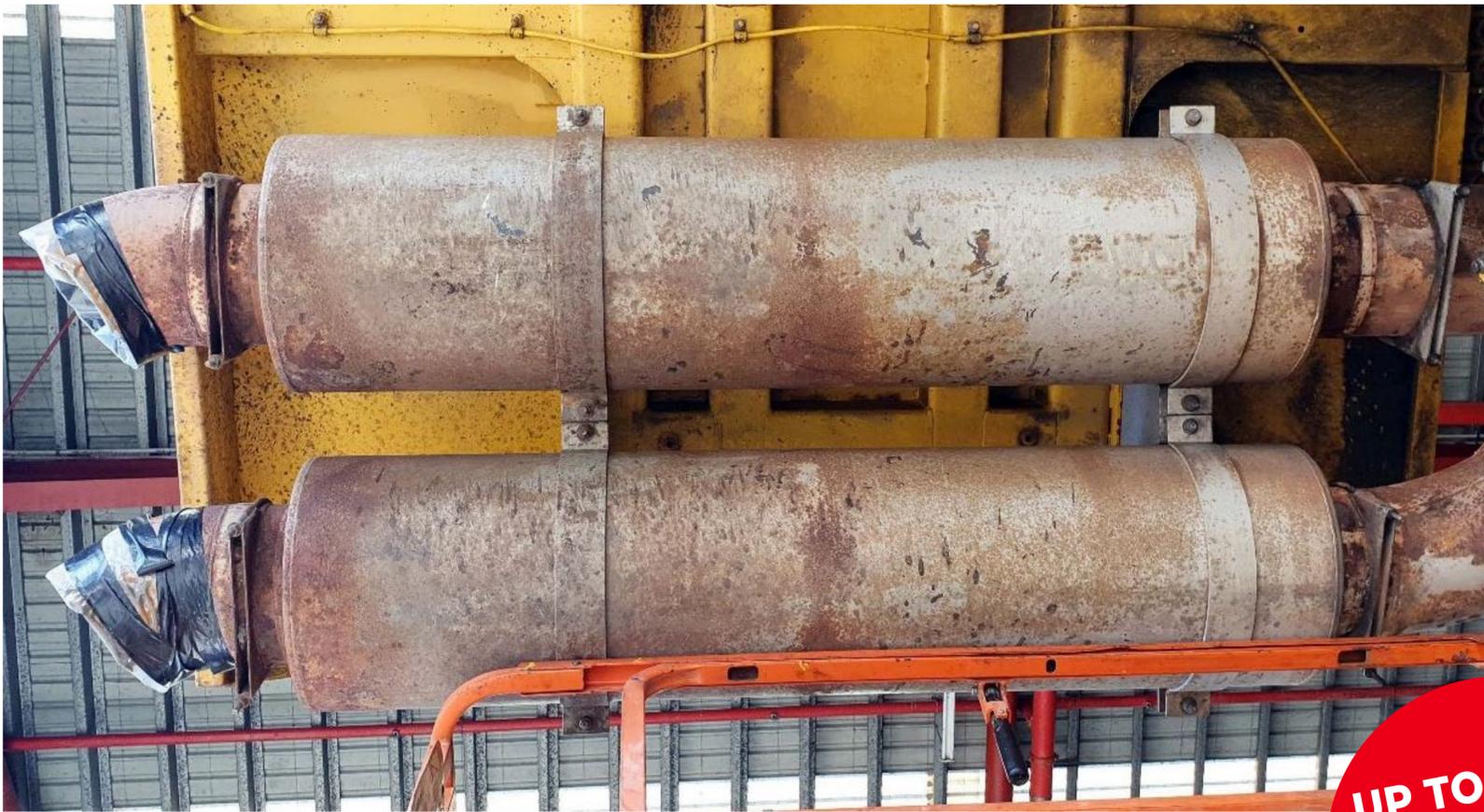
~36,000 HOURS

21 November 2022

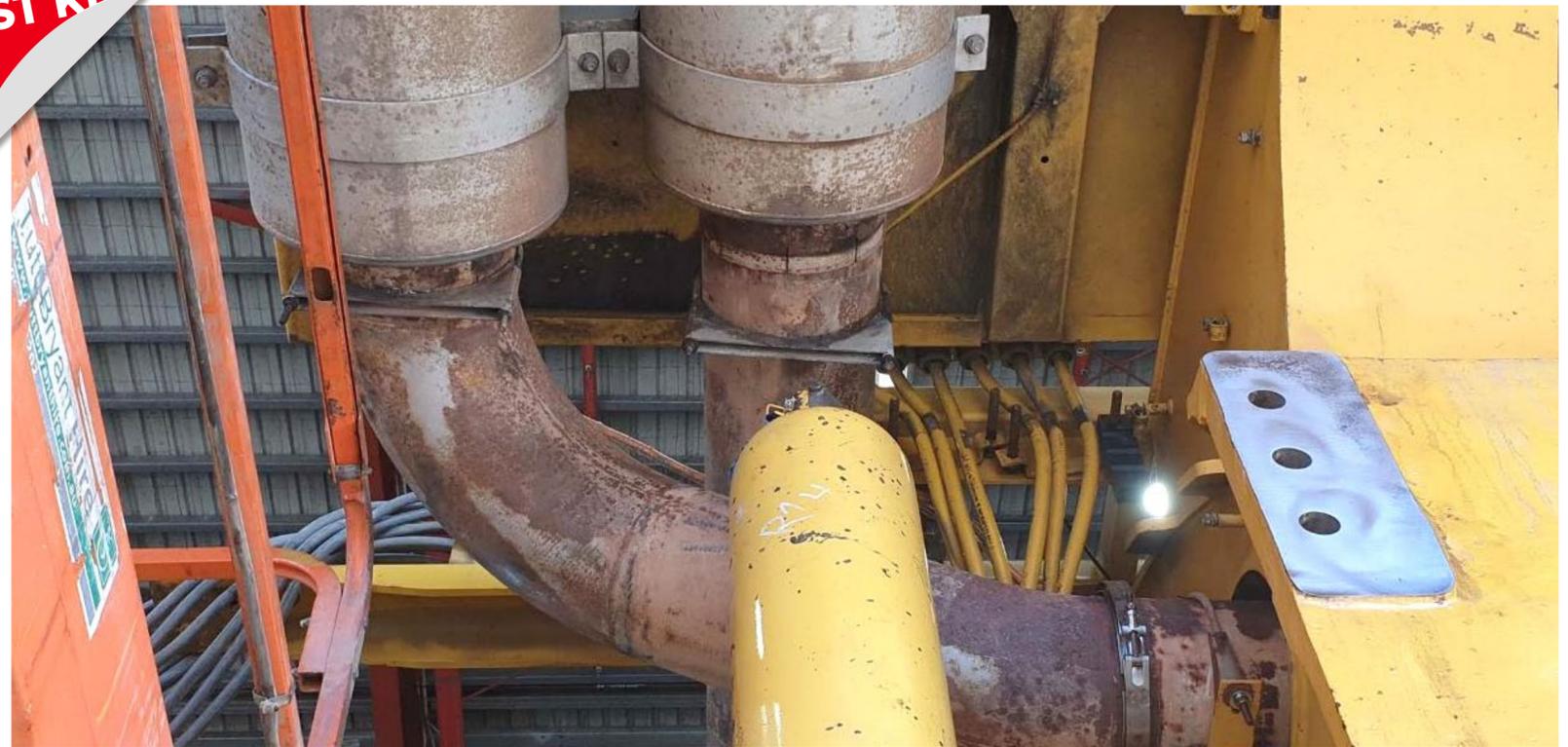
Exhaust still in operation
No known component failures

6 years in service

* Based on ~500 hours / month



**UP TO 6-YRS
WITH ALETEK
EXHAUST KIT**



Aletek exhaust components after 4.5 years. Surface rust, but in great condition – remain in service.

A photograph of two men in safety gear (hard hats and safety glasses) looking towards the left. They are wearing orange high-visibility jackets. The background is a blurred construction site. The image has a dark overlay on the right side.

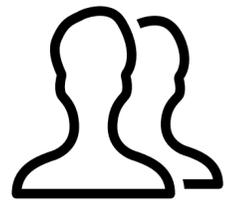
“Apart from surface rust, the Aletek engine pipes are in great condition. Testament to the quality and workmanship of our manufacturing.”

Arnie Hill
National Sales &
Marketing Manager



PROVEN DURABILITY

6+ years lifecycle demonstrated
on parts of our 830E exhaust kit



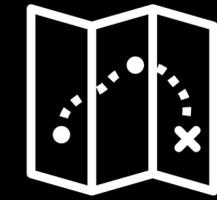
EASE OF INSTALL

Technical support, user
guides and training available



OEM COMPATIBLE

Aletek exhaust components are
compatible with OEM parts



EXHAUST UPGRADE

Invest in an Aletek exhaust for
cost savings and uptime



3

830E DIRECT-FIT EXHAUST: OEM UPGRADE



O V E R V I E W

DIRECT-FIT EXHAUST FOR 830E

- Solid machined flanges prevent cracking on engine pipe ends
- Compatible with engine specs
- Exhaust pipes and components interchangeable with OEM parts
- Australian designed and manufactured
- Superior quality materials, fabrication and workmanship
- In stock commitment for less downtime

100%
COMPATIBLE

Interchange with OEM parts

Direct-fit system

Extended product lifecycle

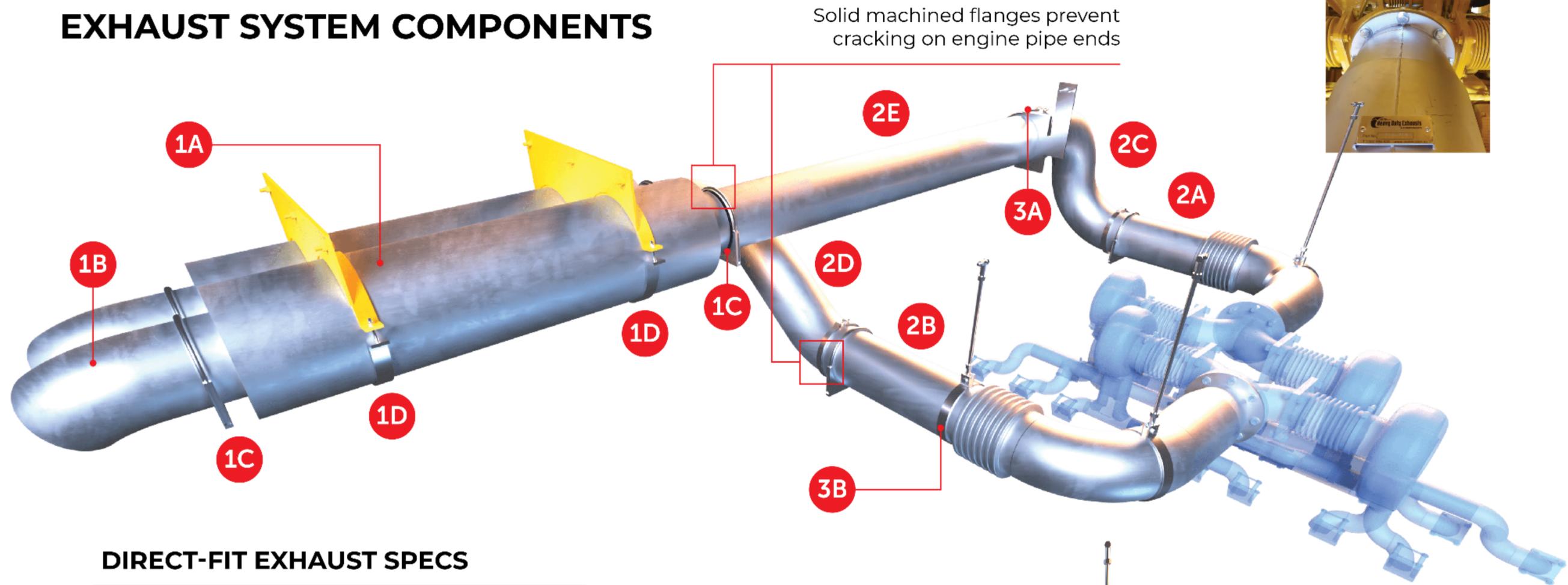
Australian made

Fatigue zones improved

Mitigate fire with blankets

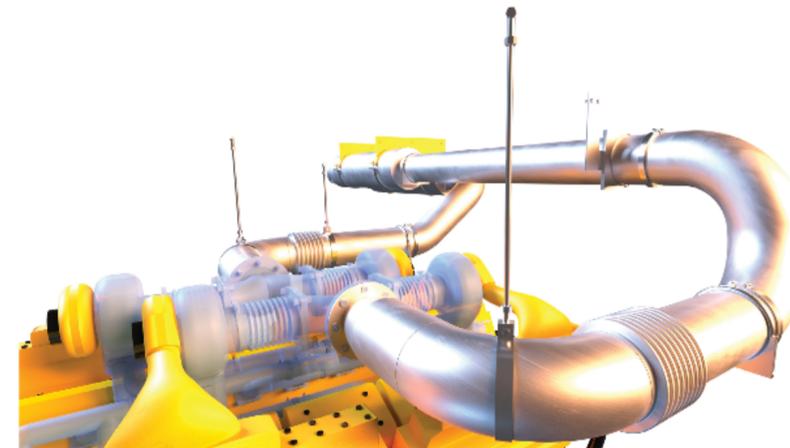
830E DIRECT-FIT EXHAUST

EXHAUST SYSTEM COMPONENTS



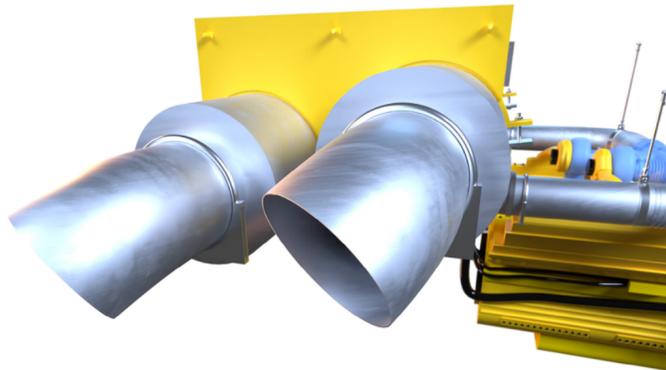
DIRECT-FIT EXHAUST SPECS

Integration	Direct-fit replacement
Specifications	2mm steel, powder-coated
Components	Interchangeable with OEM
Install Hardware	Bolts, washers & locknuts (Refer to Aletek Drawing)
Warranty	12-months*
Aletek Drawing	ALE-097



*Note: Exhausts supplied in Aletek's Gunmetal Grey. Not represented here.

830E DIRECT-FIT EXHAUST



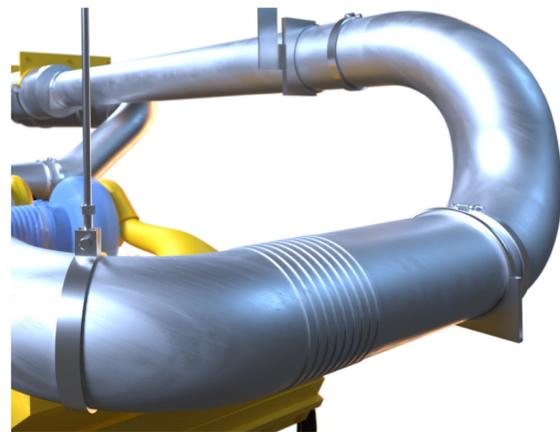
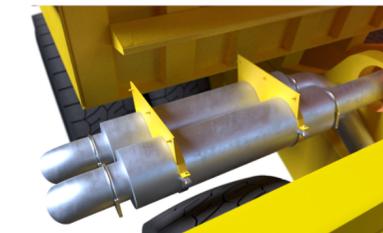
1 MUFFLERS

Part Name	Aletek Part #	OEM Part #
1A Muffler	263-975	EH9967
1B Tail Pipe	258-383	EJ8390
1C Komatsu FBC Bracket	260-369	TA6490
1D Clamp	283-701	EJ1952



3 CLAMPS

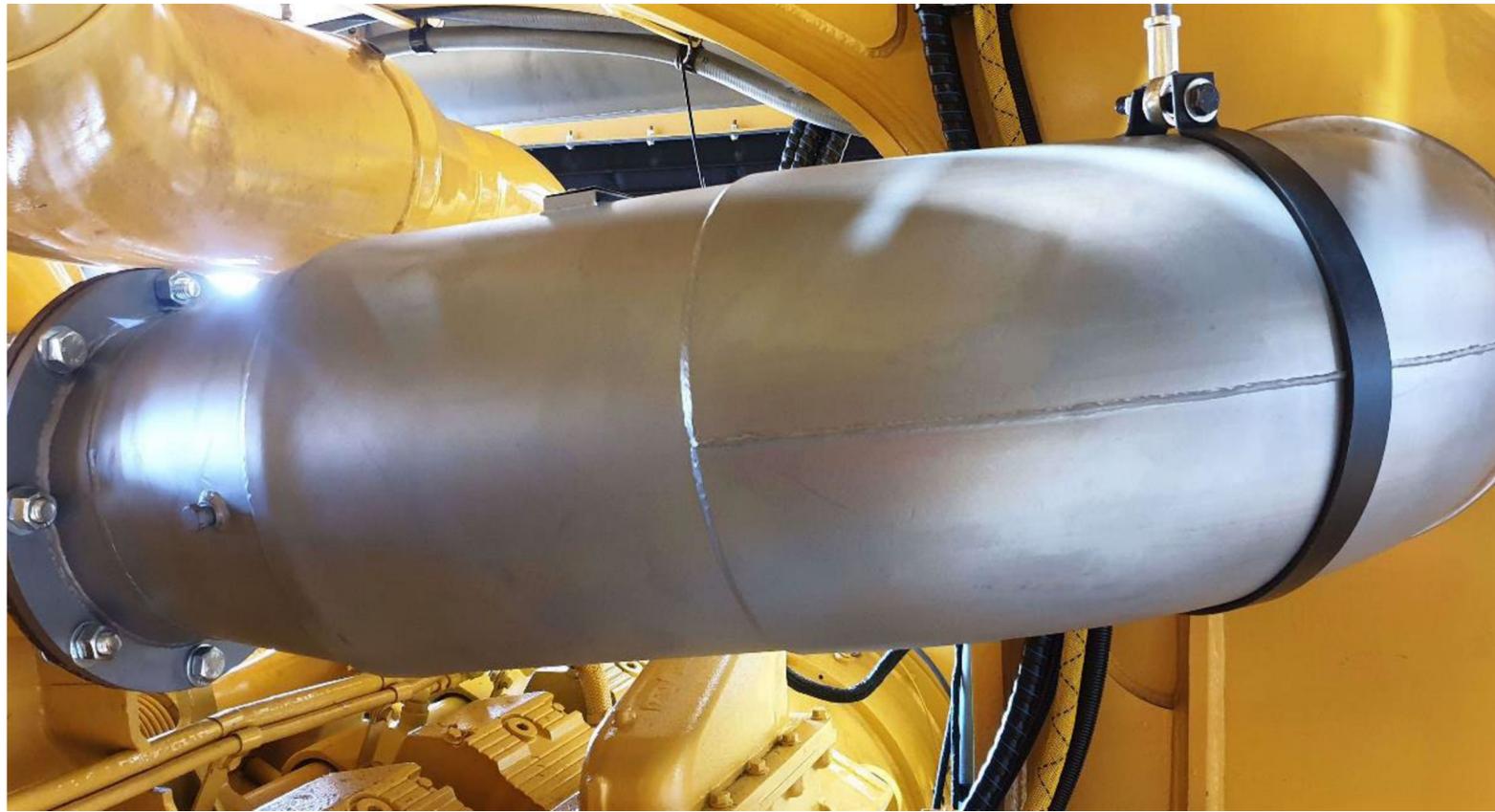
Part Name	Aletek Part #	OEM Part #
3A 10" SS V-Band Clamp	370-193	PB7997
3B 10" Tube Hanger Clamp	251-403	EJ9909



2 ENGINE PIPES

Part Name	Aletek Part #	OEM Part #
2A Engine Pipe	286-860	XB1695
2B Engine Pipe	201-563	XB1696
2C Engine Pipe	276-684	EB4763
2D Engine Pipe	298-934	XB2383
2E Engine Pipe	201-906	EJ2480

*Note: Exhausts supplied in Aletek's Gunmetal Grey. Not represented here.



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830E OPTION: THERMAL BLANKETS



OVERVIEW

BLANKET UPGRADE FOR KOMATSU 830E

- Essential for fire mitigation
- Worker safety and protection of your investment in people
- Less engine fires, site shutdowns and insurance premium hikes
- Quick-fit springs are pre-fitted for faster installs and perfect tension
- Lobster-back design for superior fitment on pipe bend sections
- Designed from 3D scans



Tailor-made
for a snug fit



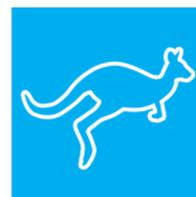
Non-itch silica
insulation



Quick-fit
springs



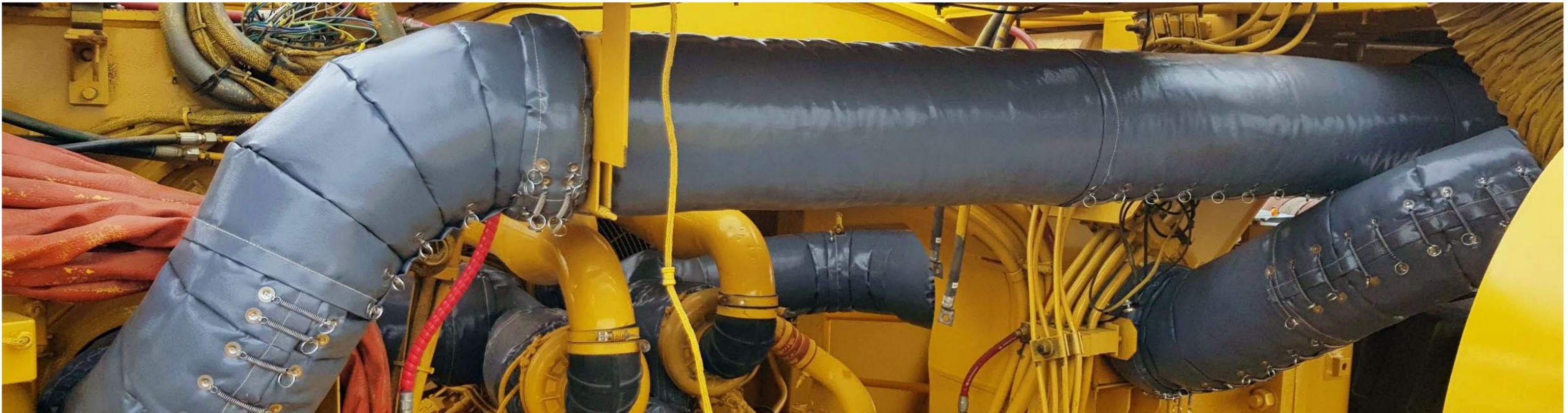
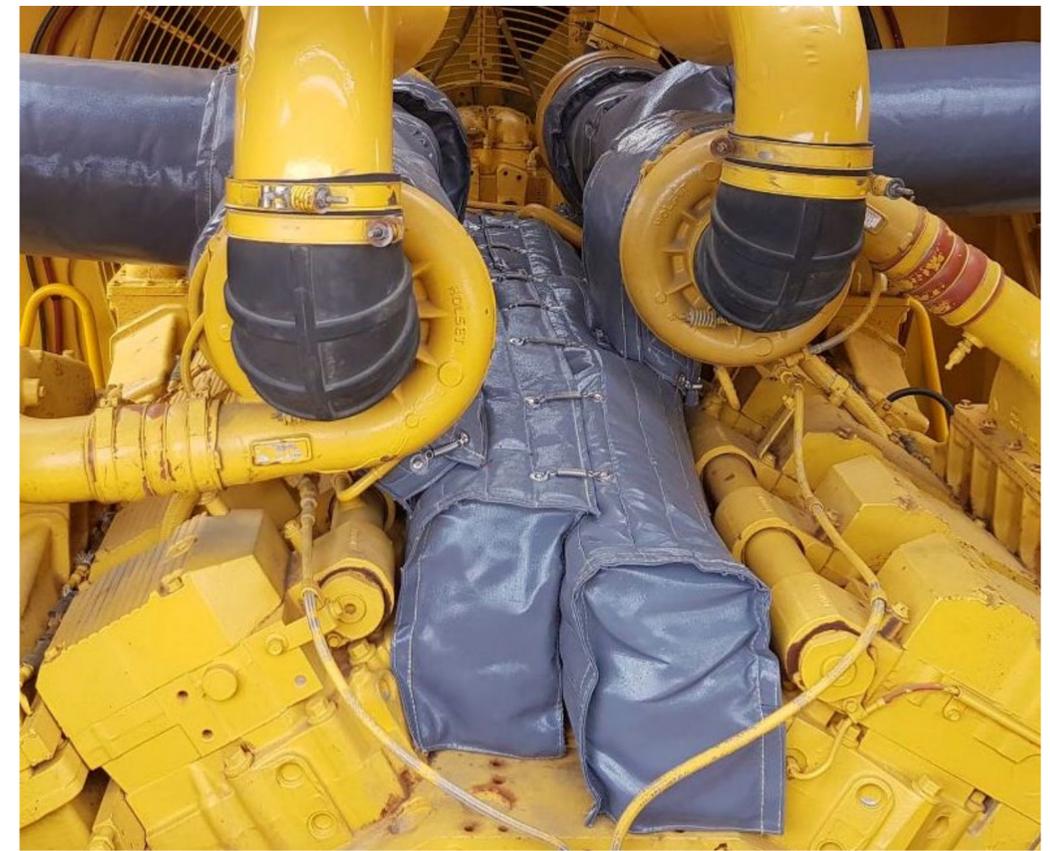
Essential for
fire mitigation



Australian
made



High voltage
line barrier





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GIVE YOUR
FLEET THE EDGE

