





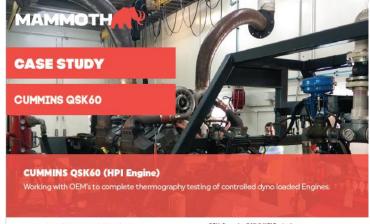
## **Thermal blankets**

## Reduce heat, stop fires

- Machine-specific fit
- Fluid resistant
- No exposed fiberglass
- Superior Design
- Superior Materials
- Innovative Features







#### **OEM Engine Specification**

Cummins QSK60 HPI Engine.

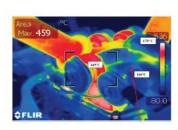
#### **Dyno Parameters**

Engie run to rated hp and torque @ 1800rpm / 2500Hp. Dyno Temp 56°C / Fuel Temperature 17°C.

#### Observations

OEM exhaust sensors indicated Left Bank (Unlagged) internal exhaust temperate of 449°C, Right Bank (Lagged) recording 456°C (7°C temperature differential).

Mammoth Pyrogard product significant reduction in surface temperature, maximum value of 178°C (Thermal reduction of 262°C).



#### OEM Cummins Q\$K60 (HPI Engine) (Rated operating temperature)

	Unlagged	Lagged Temperature (°C)	
Engine Componet	Temperature (:C)		
Turba Snail	445	166	
Muffler Inlet	440	178	

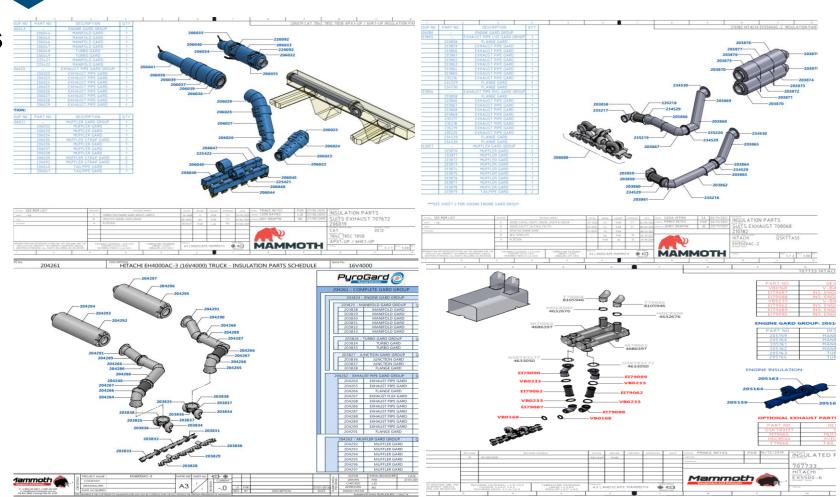






# **Thermal blankets**

- CAT 785 C
- EH 3500 AC 2
- EH 4000 AC 3
- EX 5600





# Replacement Exhaust

## Reduce machine downtime

- Upgraded OEM parts
- High-quality materials
- Factory direct price







Customer sought to compare the existing solution (ceramic coating) against Mammoth's dual skinned exhaust in lieu of reducing the touch surface temperature to below the flashpoint

#### Mammoth Flex Bellows

- Made from corrosion resistant heavy duty multi-ply stainless steel
- Innovative U-shaped convolutions which offer greater flexibility to withstand axial, lateral and angular forces.
- Proven to increase service life by 300-400%

Improved Flex Bellows have been tested and proven on 793F haul trucks across mine sites globally

- More durable
- · Easy to install
- Cost effective

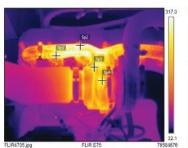
Our site has completely switched over to using the Mammoth 793F flex bellows, installed them 3 years ago – no issues.

#### Chris

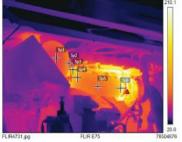
Maintenance Supervisor, North America







of hydraulic oil (204°C)

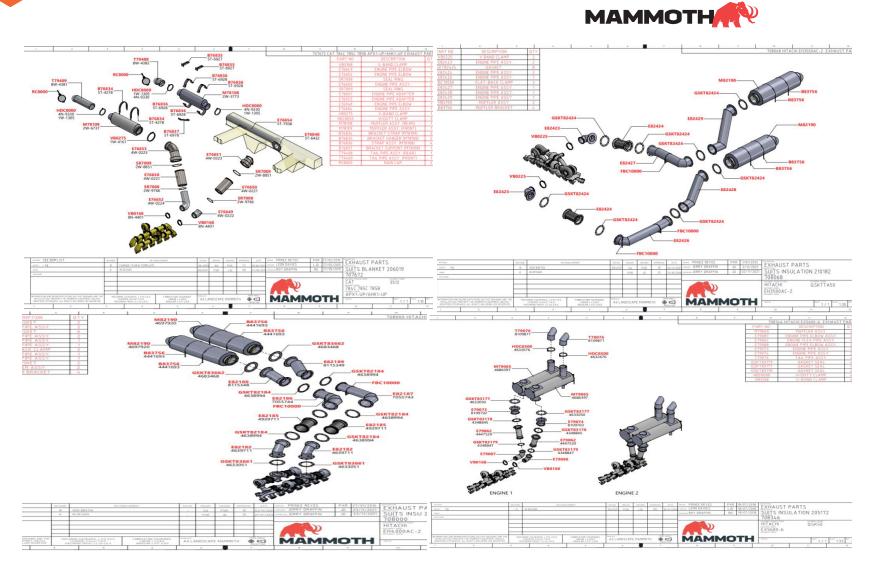


Make	Model		Components
CAT	M322D	Rock Breaker Excavator	Turbo / Manifold Tubes
Product Type / Control	Ceramic Coated	Dual Skinned System	% Reduction
Temperature	339.8°C	189.7°C	44%



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## Air Intake

## **Direct fit Air Intake solutions**

- Airboxes, pre cleaners & pipework
- Quality made parts
- Custom upgrades
- Improved product lifetime
- Polyurethane & Stainless-Steel options



#### Key Features

- · Mammoth air cleaners are made from galvanized steel (over against standard mild steel)
- · Mammoth air cleaners are highly resistant to sun, wind and precipitation
- · High gloss finish improves self cleaning - dirt and dust washes off during rain or water blasting
- · Prevents corrosion from moisture and dust ingress
- · Can be internally and externally PU coated for further corrosion
- · Widely supplied to mine sites globally and OEM dealers



Standard Air Cleaner





Standard Air Cleaner



Mammoth Air Cleaner

789 C-D AIR BOX UPGRADE	
789 C-D AIR BOX UPGRADE	
CATERPILLAR 789C	
CAT 789C Series truck uses a smaller air box than the newer box upgrade solution to utilise the larger 789D size air boxe service and replacement intervals	

789C Air Box Specifications			
Upper Housing Volume	0.12287	m3	
Pre-Cleaner Section Volume	0.10044	m3	
Primary / Secondary (Safety) Filter Volume	0.00021	m3	

ne samuel			-	
		65	ď	9
Box Specification	ns	% Gain	-	-

789D Air Box Specifications			% Gain
Upper Housing Volume	0.17982	m3	46.3%
Pre-Cleaner Section Volume	0.13258	m3	32%
Primary / Secondary (Safety) Filter Volume	0.000238	m3	14%





# **Supporting your success**

## **Common Hurdles**



Unexpected part failure



Lengthy lead times



Complex installations



Expensive OEM parts



Regulatory fines



OEM monopoly

### **Mammoth Solution**

#### **Reduce Machine Downtime**



Superior quality & design



Inventory stocked locally



Direct-fit to OEM



Factory direct savings



**Cost Reduction** 

Reliable safety products



Vendor diversity



# Providing factory direct savings straight to you

## Standard industry model

Factory initial price

OEM +x%

Distributor +x%

Dealer +x%

Customer

## **Mammoth Business Model**



Savings of 30-50% over standard model

Customer



# Supporting you every step of the way



On-site audit & assessment

Comprehensive pre & post-sale reports



Sureship program

Guaranteed inventory when you need it



Field technician team

On-site to ensure your needs are met



# **Next steps & milestones to success**

Phase 1
Understanding
your needs

Phase 2
Tailoring the right solution

Phase 3
Delivering results

Phase 4
Ongoing
success

- Mammoth introduction
- Provide fleet information to Mammoth

- Presenting areas of opportunity
- Formal project proposal & quote

- Purchase order
- Approve vendor application (as needed)
- Delivery, install & confirm fitment

- 90-Day quality review
- Further implementations

