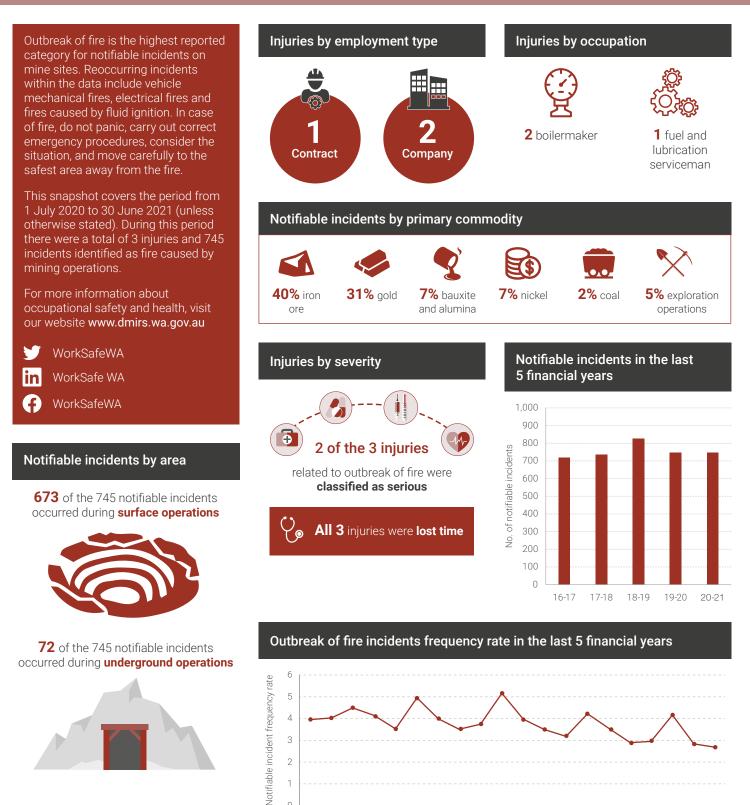


Government of Western Australia Department of Mines, Industry Regulation and Safety



# Safety and Health Snapshot for the Western Australian minerals sector

## Outbreak of fire



2016-17

Q4 Q1

Q4 Q1

2017-18

Q1

Q4

2018-19

Q4 Q1

2019-20

Q4

2020-21

0

Q1

#### Some recent incidents



## Machine fire 22/04/21

A loader at a processing plant returned to work after a 500-hour service when the operator noticed a diesel leak and shut the machine down before they heard a bang and saw flames coming from the engine bay. The operator activated the aqueous film forming foam (AFFF) fire suppression system, which put out the fire. A non-original equipment manufacturer 0-ring on the diesel fuel filter had failed.



### Electrical fire 13/01/21

An operator conducted a pre-start inspection of mobile plant. When they went up the access ladder, they smelt something electrical burning. The operator put their bag in the cab and came out to investigate. They saw flames coming from beneath the walkway. The operator called an emergency and shut the machine down. When they tried to exit, they were unable to drop the emergency ladder. As the flames were starting to die down, the operator used a dry chemical powder (DCP) extinguisher to put the fire out. An investigation was conducted.



## Vehicle fire 04/10/20

A truck driver was taking a load up the decline at an underground mine when they smelt smoke and saw flames around the engine bay of the vehicle. The operator activated the aqueous film forming foam (AFFF) fire suppression system and called an emergency. The operator used a dry chemical powder (DCP) extinguisher put out the fire. Refuge chambers were used when the emergency was called. A failed O-ring on the rear fuel rail connection block allowed fuel to spray onto the hot engine. All other trucks were inspected. An investigation was conducted.



# Cutting sparks 20/04/21

A boilermaker at an open pit was oxy cutting a nut off the inside of an apron feeder when sparks from the cutting set the shin area of his trousers on fire. A spotter saw the incident and used a water hose to put out the fire. The boilermaker was taken to the site medical facility and was treated for burns to the leg.



### Vehicle fire 14/01/21

An empty haul truck was travelling along a haul road toward an underground mine, when the operator noticed a vibration coming from underneath the cab. As they pulled over to the side of the road, another operator notified the first operator that they could see flames coming from the engine compartment of the truck. The operator manually activated the aqueous film forming foam (AFFF) fire suppression system, and the two operators attempted to put out the fire with four dry chemical powder (DCP) fire extinguishers. The two operators retreated and called an emergency. Underground operations were suspended and workers evacuated. The emergency response team (ERT) attended, observed that the fire had engulfed the tyre and the engine bay and barricaded the scene to allow the fire to burn out. About three hours later, it was noted that the fire had died down and the front tyres had burnt out and ruptured. Wind conditions were favourable so the ERT extinguished the remains of the fire and used water to cool the machine.



### Equipment fire 13/01/21

A worker at a construction project kitchen switched on an electric tilt skillet to cook dinner and added cooking oil to clean the tray. Soon after, the oil caught fire. A dry chemical powder (DCP) extinguisher and fire blanket were used to put out the fire. Two workers were assessed for exposure to dry chemical after extinguishing the fire. No one was injured. An inspection found the thermostat was faulty and failed to control the temperature.

## Safe work practices

#### Examples include:



Only refuel at designated surface or underground refuelling locations that have appropriate fire suppression systems



Remove excess grease and oil from engines



Carry out daily inspections of critical components such as hydraulic lines, heat shields and other protection equipment



Inspect the site thoroughly before and after hot work is done



Ensure escape routes are free of any obstruction



Develop bushfire protection measures

#### More information

• Guidance about fire hazards

For more information see our safety alerts and summaries for industry awareness at www.dmirs.wa.gov.au/ResourcesSafety Past issues of monthly safety and health snapshot series can be viewed at www.dmp.wa.gov.au/SafetySnapshots