

# CASE STUDY | Underground Haulage Trucks Switch to LED Headlamps

Matrix provides a cost-effective lighting solution for an underground fleet of CAT 773 haulage trucks.

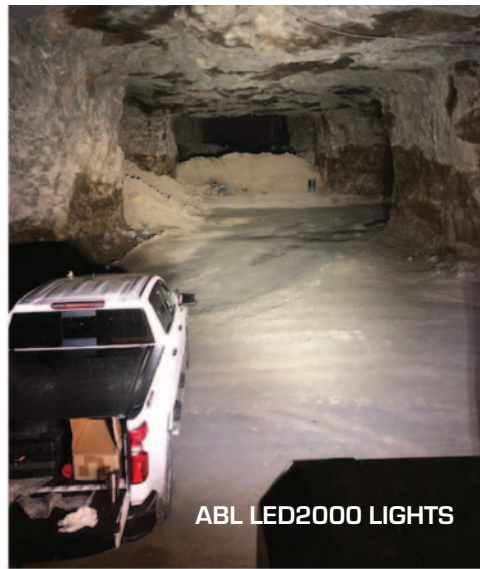
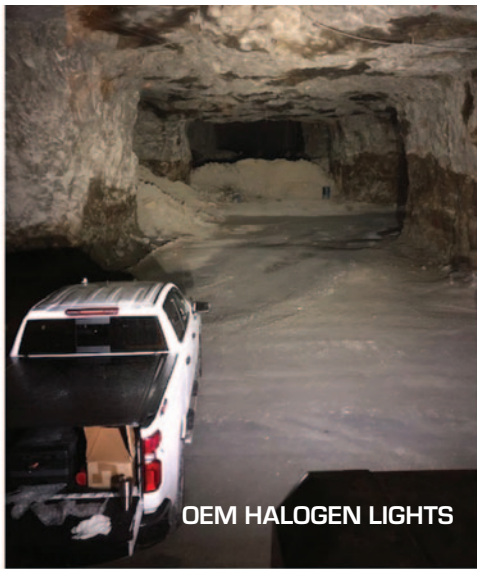
## Problem:

The mine's CAT 773s were using OEM halogen headlamps which projected lower-grade light that caused operator eyestrain, fatigue and created higher lighting maintenance costs.

## Solution:

Matrix replaced the OEM halogen lighting with ABL 2000LED lights. This resulted in the 773 operators experiencing a brighter, clearer field of view which causes less eye strain and increases driving efficiency because the drifts are better lit. This mine will experience a lighting maintenance **cost reduction of up to 50%** due to robust, longer-lasting ABL LED2000 lighting from Matrix.

- High-quality, clean, evenly distributed light for better operator visibility
- Built to withstand harsh industrial environments
- Uses less power
- Generates minimal heat
- Minimal lumens decrease during service life
- Longer lasting
- 5-year warranty



**ABL LED2000 SERIES** The ABL LED2000 Series is available in 12-100V 24V and is a direct substitute for your 35W HID Xenon work lights. This lighting family is extremely durable, which delivers significantly lower maintenance costs and has become the mobile fleet standard for haul trucks around the world. Comes with a 5-year warranty.



### Features

- Salt Spray: ISO 9227
- Lens: hardened glass
- Dim (DxWxH): 3.15x4.016x5.197" (80x102x132mm)
- Weight: 1.98 lbs (0.9kg)
- Vibration: 15Grms @ 24-2000Hz
- Shock: 60G
- EMC ISO 13766, 14982, CISPR25
- Surge: 130V continuous, 200V 100ms
- Temperature: -40C to +85C

Part No.	Beam	eLumens	rLumens	Voltage	Amps (24V)	IP Rating	Warranty
LED2000F	Flood	2000 Lu	2500 Lu	12-100V	1.2A	IP68/69K	5 Years
LED2000LR	Long Range	2000 Lu	2500 Lu	12-100V	1.2A	IP68/69K	5 Years
LED2000F-24V	Flood	2000 Lu	2500 Lu	24V	1.2A	IP68/69K	5 Years
LED2000LR-24V	Long Range	2000 Lu	2500 Lu	24V	1.2A	IP68/69K	5 Years
LED2000AFP	Amber	N/A	N/A	12-100V	1.2A	IP68/69K	5 Years

Contact Matrix for a **free LED lighting plan** for your mine or industrial facility!

[www.matrixteam.com](http://www.matrixteam.com) 

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