

Rotary bit - 13,900m life reaches in Pilbara

Pilbara is one of the richest iron ore regions in the world, the 40% of iron ore in the world come from mines here operated by Rio Tinto, BHP, FMG, RH, MRL et al.

Black Diamond has been supplying and supporting the exploration and production activities here for over 15 years, rotary bits are part of BD products portfolio, and **our rotary bits just set a record of 13,900m and averaged over 8,000m.**



Site & Drilling Information

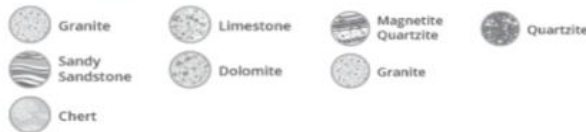
MINE	MINERAL	DRILL RIG	BD PRODUCT	BEARING TYPE	CUTTING STRUCTURE
IRON VALLEY/ MINERAL RESOURCES	IRON ORE - HEMATITE/BIF	D55SP/PV235	229-645 ROTARY BIT	SEALED BEARING	IADC 645

Product Information

IADC: 645 - TCI sealed roller bearing bit with gauge protection for medium hard formations with high compressive strength.

Compressive Strength:

- 85-100 MPA
- 12,000-14,500 PSI



Ground Description:

Hard, well-compacted rocks such as: hard silica limestones, quartzite streaks, pyrite ores, hematite ores, magnetite ores, chromium ores, phosphorite ores, magnetite and granites

Product Specification	Technical
Bearing Type	Operating Suggestions
Roller-Ball-Roller-Thrust Button/Sealed Bearing	Weight on Bit: 19,750-49,380
Circulation Type	Rotary Speed: 80 - 110RPM
Jet Air	Air Back Pressure: 0.2 - 0.4
Cutting Structure	
Inner and Nose Rows: Conical	Gage Row: Conical
Gage Level Protection: Conical	Hardmetal on lug; Wear resistant carbide on shirttail lip and lug

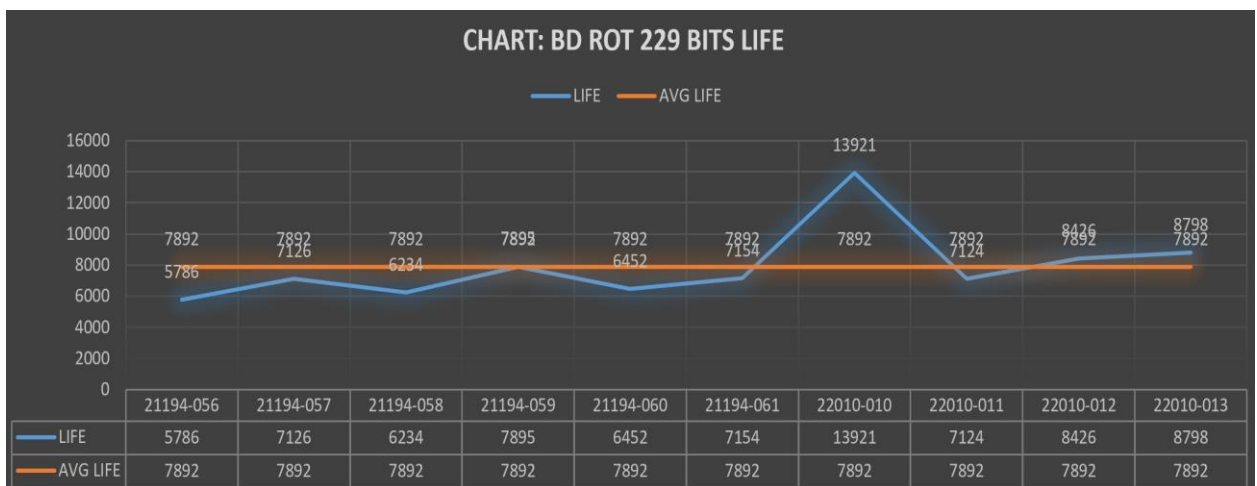


Chart: Customer verified data collected from BD rotary bits used in FY2122

Case study was drafted by BD TSM Grant Rees.

For more information please contact our office or email sales@bdrill.com.au