

TRI-CONE BITS IADC WEAR CODES

Column no.	Cutting structure				Bearing/seal	Gauge loss	Other dull	Reason pulled
	Inner rows	Outer rows	Dull	Dull location				
Column no.	1	2	3	4	5	6	7	8
Example	2	4	LT	A	EEF	I	SD	TD

1. Inner rows of main cutting structure (all except for gage).

2. Outer rows of main cutting structure (only gage row).

In columns 1 and 2 are used numbers from 0 to 8 where 0 – no cutting structure wear; 8 – total cutting structure wear. Example: if the bit with carbide cutting structure has 42 inserts in gage row 6 of which fell out, 3 partially broken and the rest were worn 20%, this will correspond to number 3 because: the percentage of damaged cutting structure: $((6*1+3*0,5+33*0,2)/42)*100\% = 33,6\%$ which corresponds to figure: $8*0,336=2,688=3$.

3. Dull characteristic (see table below)

4. Dull location

N- Nose Row; G – gage row; M – middle row; A – all rows

5. Bearing/seal

The three letters designating the first, second and third cone respectively.

E – Effective seal, F – failed seal

6. Gauge loss

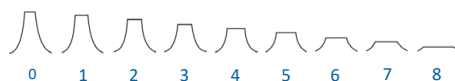
I – nominal diameter, 1,2,3...- gauge loss in mm

7. Other dull (clause 3)

8. Reason pulled

Wear characteristics

Code	Description
BC	Broken cone
BT	Broken teeth
BU	Balled up bit
CC	Cracked cone
CI	Cone interference
CD	Cone dragged
CR	Cored
CT	Chipped teeth
ER	Erosion
HC	Heat checking
JD	Junk damage
LC	Lost cone
LN	Lost nozzle
LT	Lost teeth
PB	Pinched bit
PN	Plugged nozzle
RG	Rounded gage
RO	Ring out
RR	Rerunnable
SS	Self-Sharpening Wear
WO	Washed Out Bit
WT	Worn Teeth
NO	No Dull Characteristic



Code	Description
BHA	Change BHA
DMF	Downhole motor failure
DSF	Drill string failure
DST	Drill stem test
RIG	Rig repair
CM	Condition mud
CP	Core point
LOG	Run logs
FM	Formation change
HP	Hole problems
HR	Hours on bit
PP	Pump pressure
PR	Penetration rate
TD	Total depth
TQ	Torque
TW	Twist off
WC	Weather conditions
WO	Washout
LIH	Left in hole