

Advanced Engine Performance Diagnosis 8th Edition

Chapter 19

Narrow and Wide-Band Oxygen Sensors

M K D M G V K M Z V E D I X O I D M U I N O C R I Z S
 Z B C H C I R E S L A F D V L T V K G D R B B Y H N R
 L B B D Z L G L W N E T N Q Q D K R V T X Z B K E J O
 R Y Y F P Y W R M Z X Q N Y P T U K Z L X H V M C N S
 S Z W F R Y T T I M H N W E Y B L A E N M L I N N R N
 I M R Q J L F R E E A J Y J R B L D L T T T P N N Q E
 G K T L P N C D C D U M T J K N O L T C F T N C L X S
 N J L D N O K O N O S L O T N R S D E F E T K N N W N
 A W K W N L T P E R T P H M T G X T O C H L Y B N N E
 L X M I N D B E R T S Y M C P N I T C B P Y L O R K G
 E Q A K W D G N E C I K E N R M H S J E H M X F T V Y
 L D M M X F N L F E D L B Q W G T T E X L Y U M N J X
 E K R R R N M O E L E Q B K I L S D K D G L N P X T O
 C N Y M R F D O R E E T N L V D K I K E R L M P L W D
 T Q J D N X B P C E L M X C F L B X N N K E O W W M N
 R M W R M L H N X D E J W W L R B S W G F O G Z C B A
 O R T V Q R E B T I C B N N M T E N J A L C R N J G B
 D M Z L X R T R N S T T M D M N D J L D M E Y L I X -
 E K L T E B J Q B T R V P N S B P S E Q D Q C W H F E
 Z V P F M M T L C N O K D O F T E S R M M L C E N Y D
 Y K E R A N A L P E D Y R J D L O Y X K I W J T L Q I
 C R R D G M L X J I E S H N E L C H Q Q R M F L L L W
 Q M P V F Z B C R B D T K A C K K G Z B T G D Y C M Y
 N X D T Z L L F T M V K N K R J R F G Z L D L H K B H
 G M L M W N X L R A V T M B G Y M L K L E L T K W R P
 R F T H I M B L E D E S I G N G M W N T U M N K Q B L
 T R L N G C U P D E S I G N G V K F Y T F C L T K H K

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Ambient side electrode

Closed loop

Cup design

Dual cell

Exhaust side electrode

False lean

False rich

Finger design

Fuel trim

Light off time

LOT

Nernst cell

Open loop

Oxygen sensors

Planar

Pump cell

Reference

Reference electrode

RTV

Signal electrode

Single cell

Thimble design

Wide-band oxygen sensors

Zirconia

Zirconium dioxide