

Chapter 30

Pistons, Rings, and Connecting Rods

Find the words in the grid. Words can go across, down and in the two forward diagonals.

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

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| Back clearance | Full floating | Positive twist ring |
| Balancing bosses | Grooves | Reverse twist ring |
| Barrel face ring | Heat dams | Ring gap |
| Bleed hole | Hypereutectic | Scraper ring |
| Blowby | Interference fit | Side clearance |
| Cam ground | Lands | Skirt |
| Compression rings | Lock ring | Slipper skirt |
| Connecting rod bearing journal | Major thrust surface | Spit hole |
| Crankpin | Oil control ring | Struts |
| Crank throw | Piston | Taper face ring |
| Double knock | Piston pin | Wrist pin |
| Ductile iron | Piston ring expander | |
| Freewheeling | Piston rings | |