

# Chapter 33

## Pistons, Rings, And Connecting Rods

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

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

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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 rings           | 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         |                     |