

# Chapter 28

## Gasoline, Alternative Fuels, and Diesel Fuels

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

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

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|------------------------|--------------------------|-------------------------|----------------------|
| AFV                    | Diesohol                 | Liquified petroleum gas | SVO                  |
| Air fuel ratio         | Distillation             | LP gas                  | Syncrude             |
| Antiknock index        | E diesel                 | Methanol                | Syn gas              |
| API gravity            | Ethanol                  | Methanol to gasoline    | UCG                  |
| ASTM                   | Ethyl alcohol            | NGV                     | UCO                  |
| Biodiesel              | FFV                      | Octane rating           | ULSD                 |
| Biomass                | Flex fuel                | Oxygenated fuels        | Variable fuel sensor |
| Catalytic cracking     | FTD                      | Petrodiesel             | V FFV                |
| Cetane number          | Fuel compensation sensor | Ping                    | Volatility           |
| Cloud point            | Fungible                 | PPO                     | WVO                  |
| Coal to liquid         | Gasoline                 | Propane                 | WWFC                 |
| Compressed natural gas | Grain alcohol            | RVP                     |                      |
| Cracking               | GTL                      | Spark knock             |                      |
| Detonation             | Hydrocracking            | Stoichiometric          |                      |