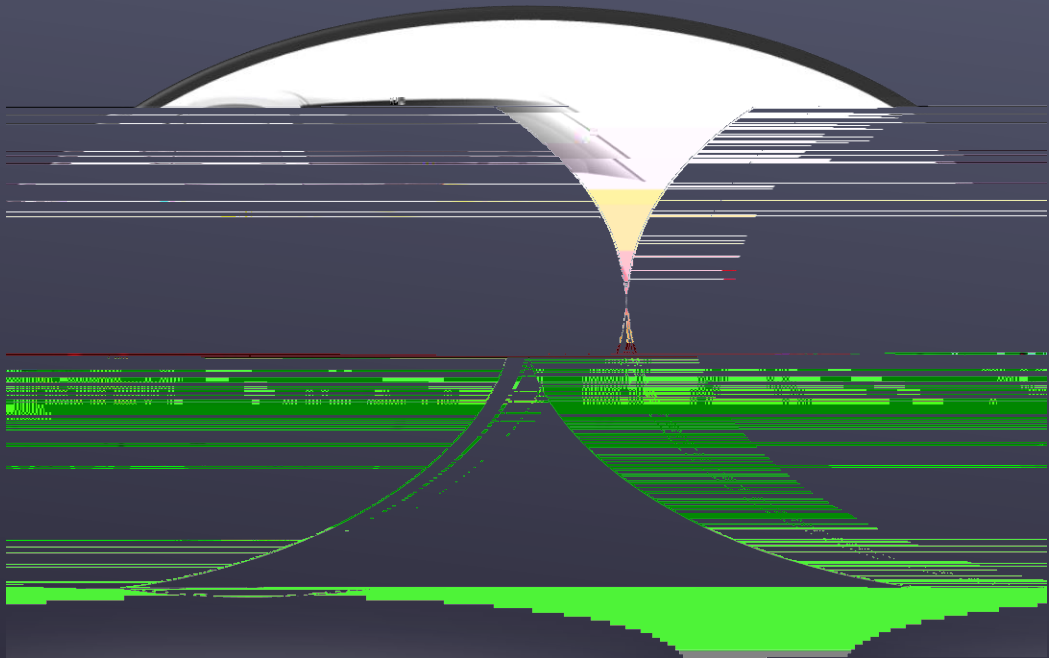


# BASIC AUTO INFO





SMARTER EVERYDAY!

# WHAT SHOULD I KNOW ABOUT OWNING A CAR

Vehicle Identification Number (VIN) Ì Why and what does it mean

Electrical: Fuses, battery, starter, alternator, spark plugs, OBD codes / Idiot lights

Troubleshooting - <https://repairpal.com/symptoms>

<https://repairpal.com/warning-lights-chart>

Tires - what do the numbers mean, PSI, wear signals, how to change

Brakes/shocks/struts - sounds and what looks good

Fuel system - Octane, filter, cap, pump

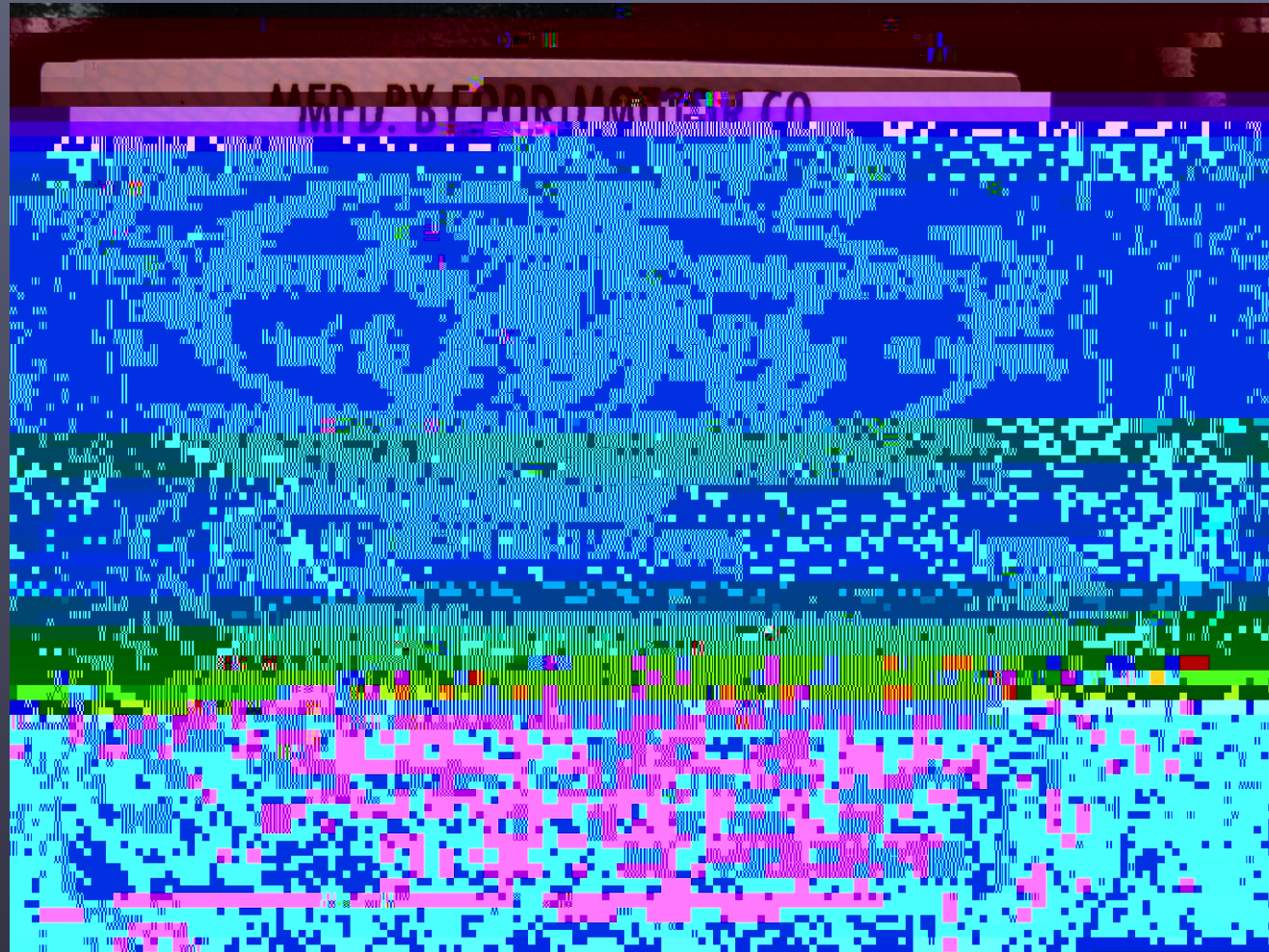
Fluids - (oil, trans, brake, antifreeze (orange/green), steering) how to change oil and filter

Exhaust / Emission test Ì O2 sensors/mufflers/pipe color of smoke

Buying checklist - What to consider when buying a used car

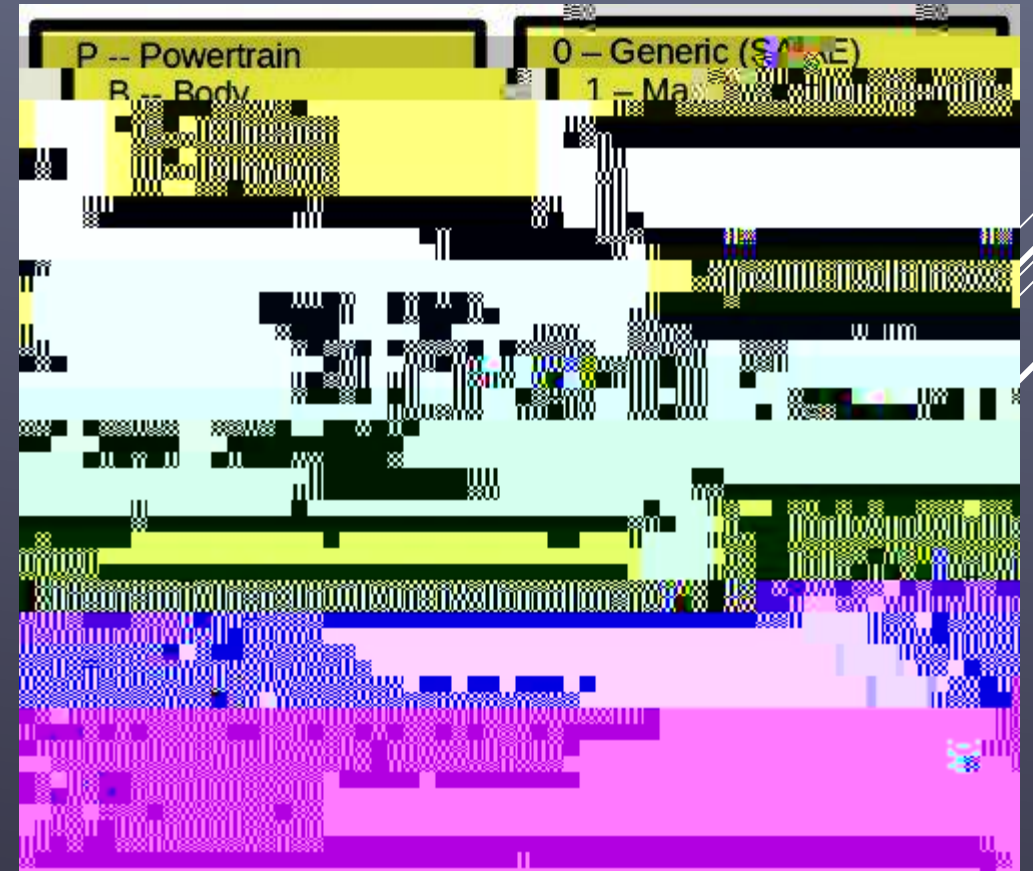
- Where is VIN and why important - decoder

<http://researchmaniacs.com/VIN/VIN-Decoder.html>

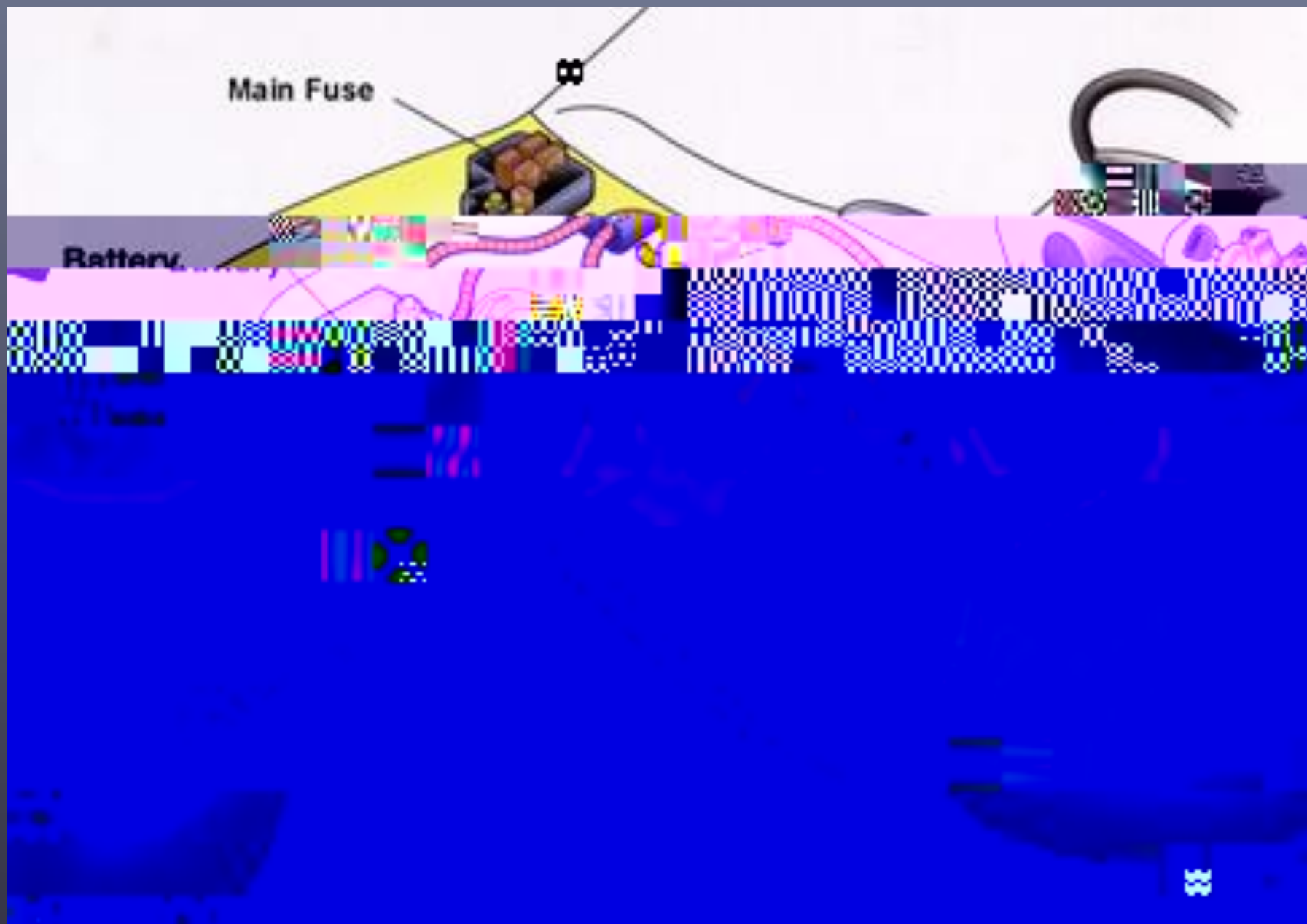




Part stores will check for free



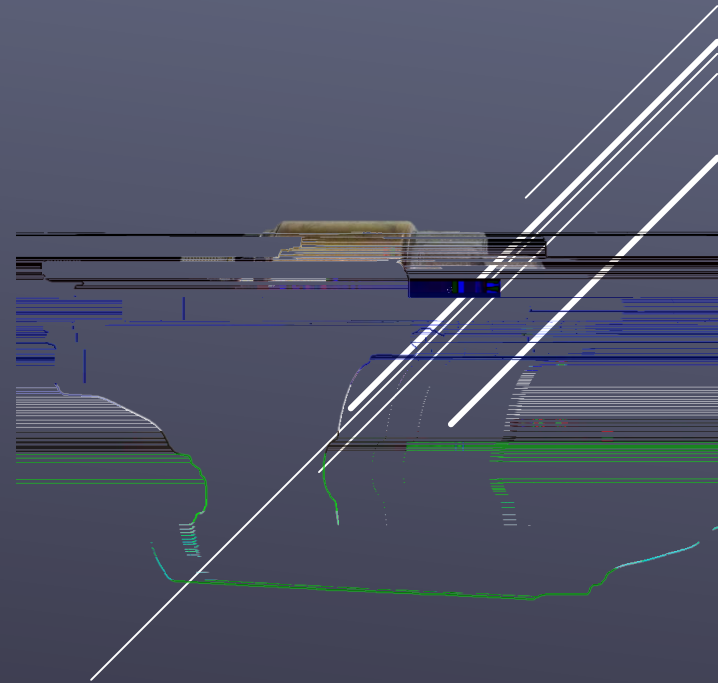
[https://www.obd-codes.com/trouble\\_codes/](https://www.obd-codes.com/trouble_codes/)



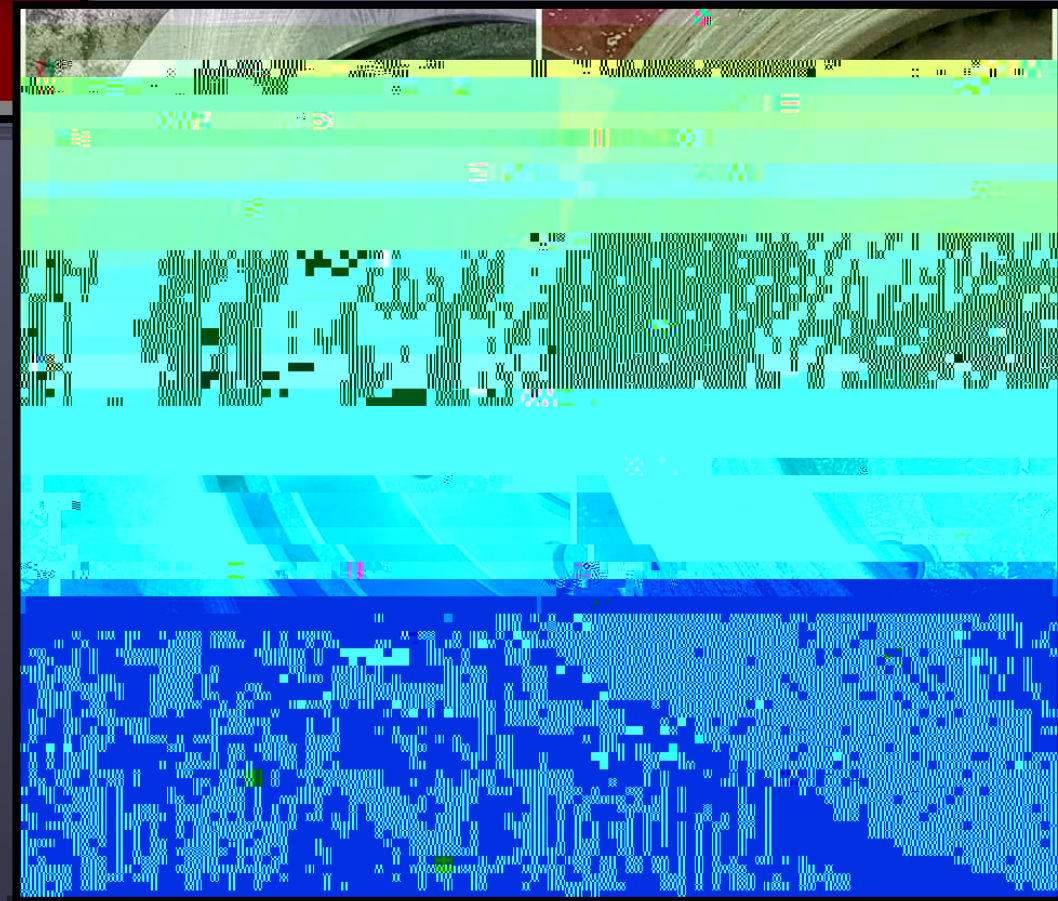
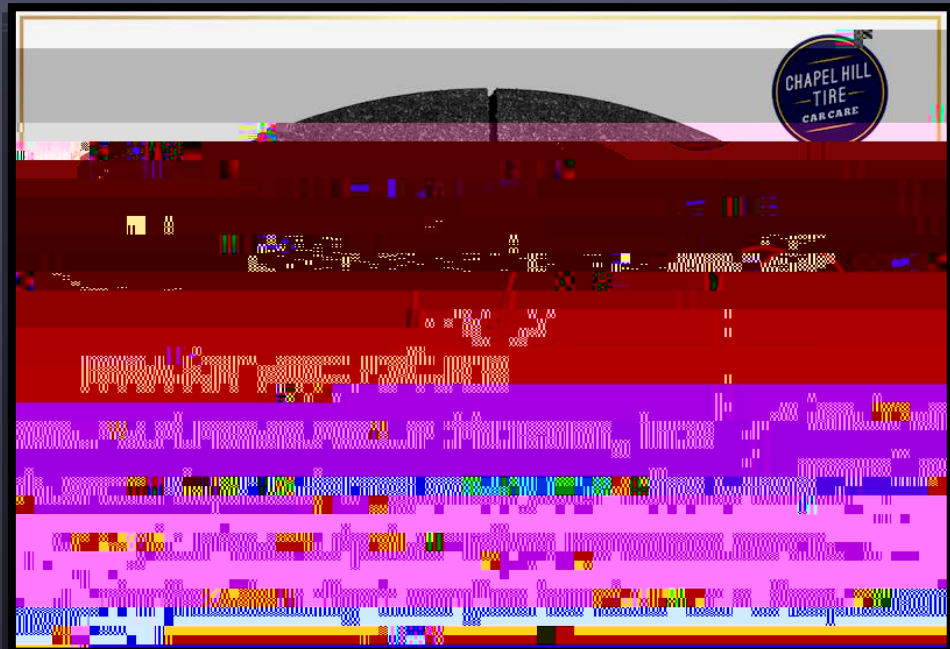
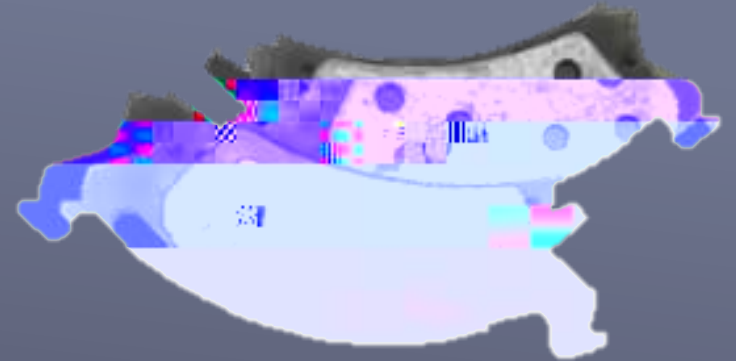
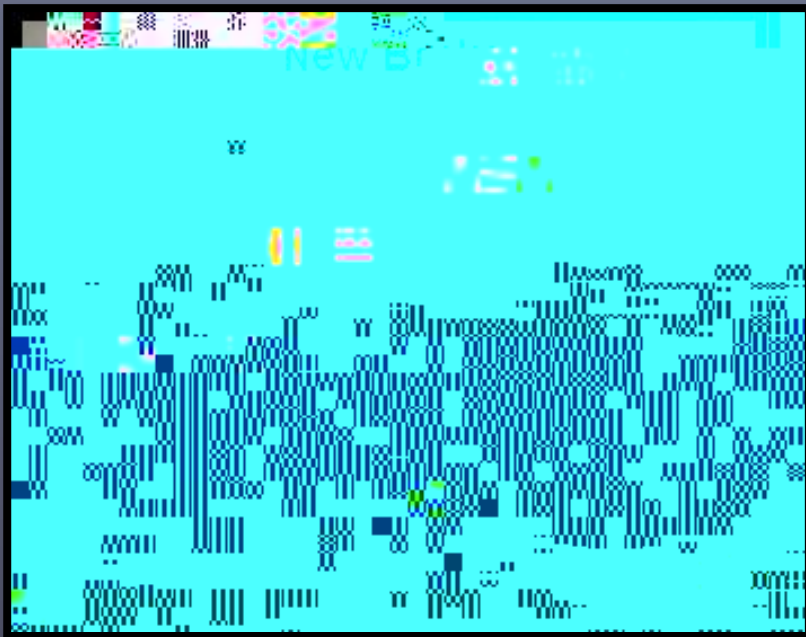
Main Fuse

Battery

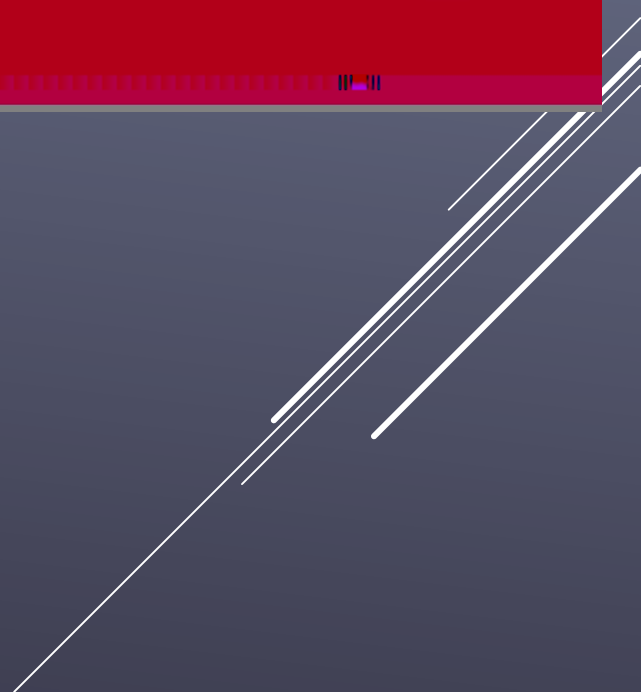
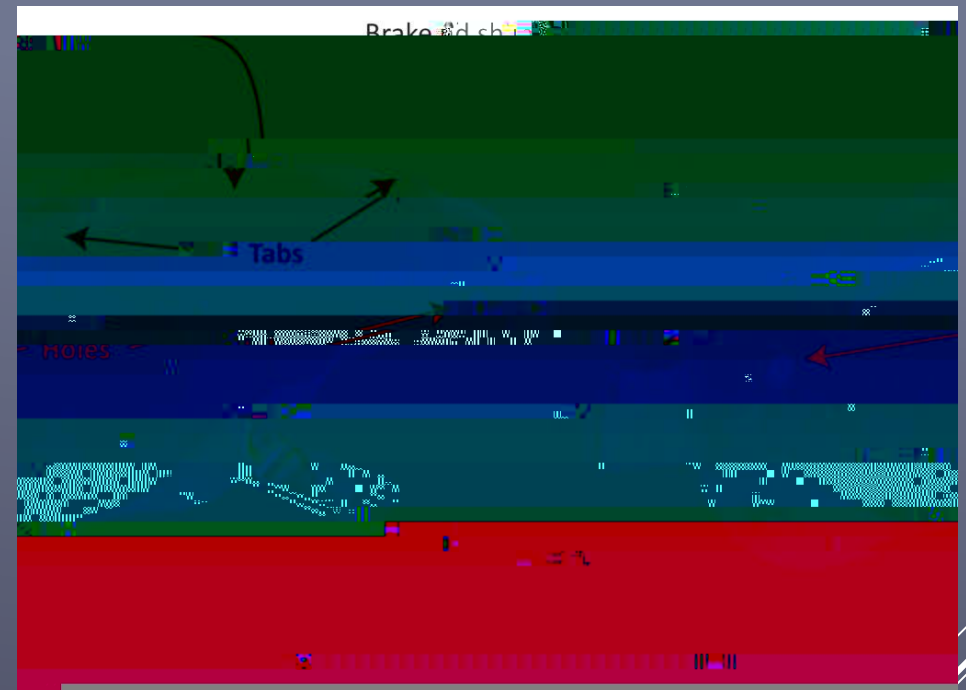
ELECTRICAL

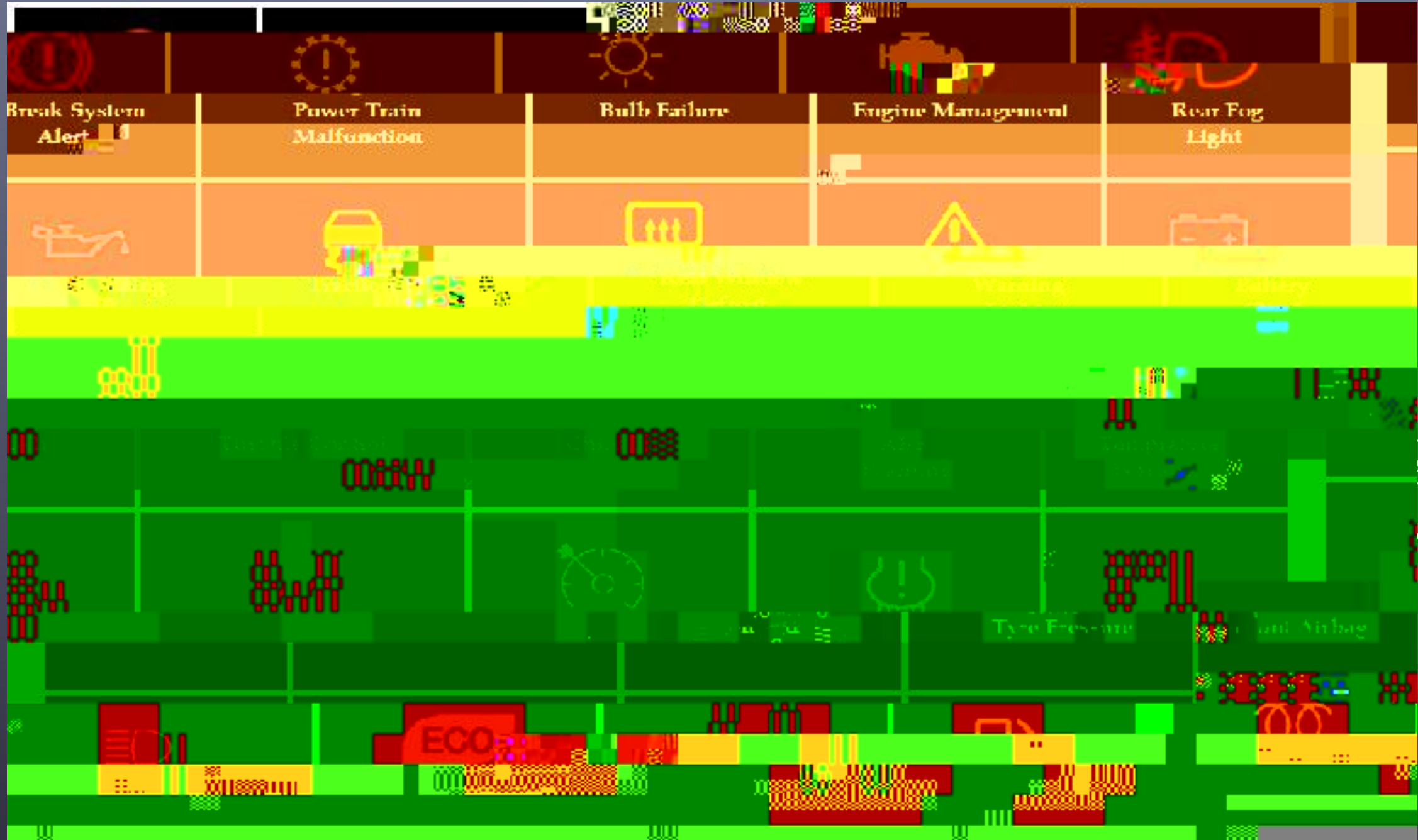


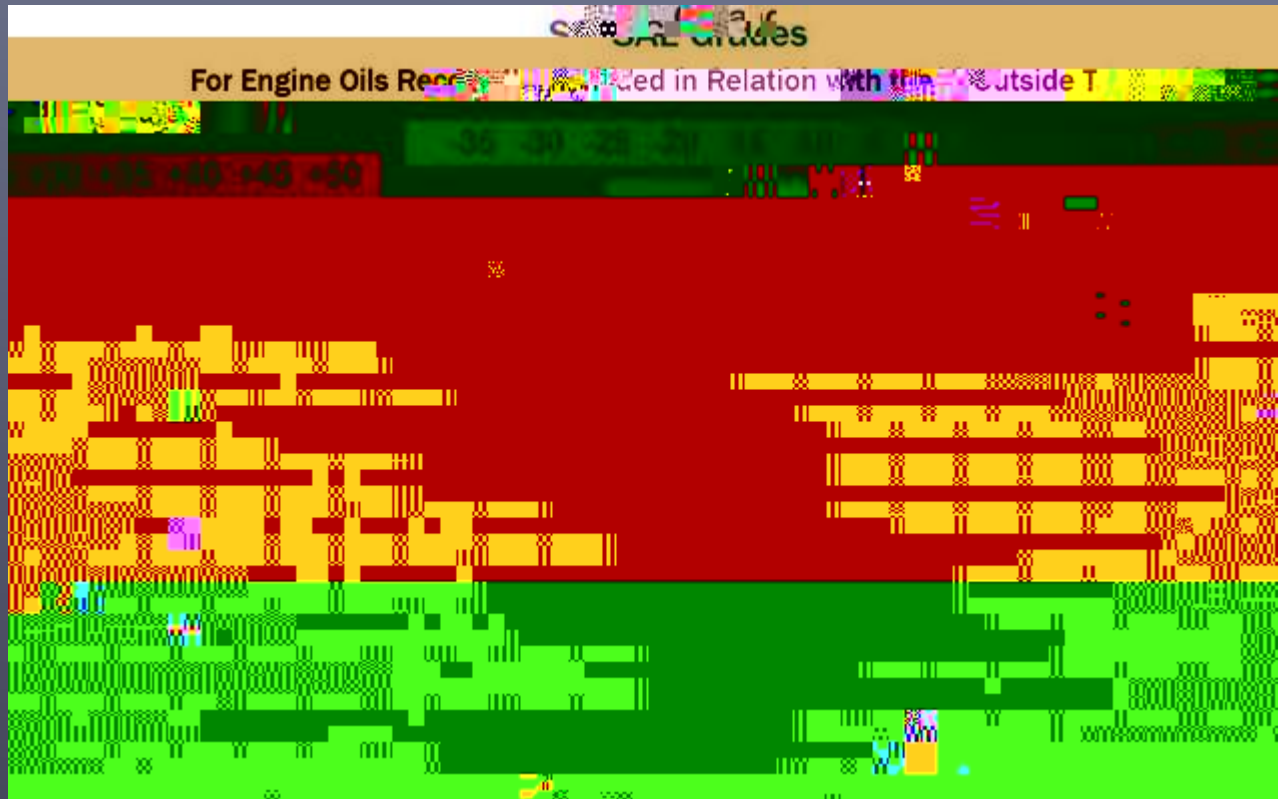












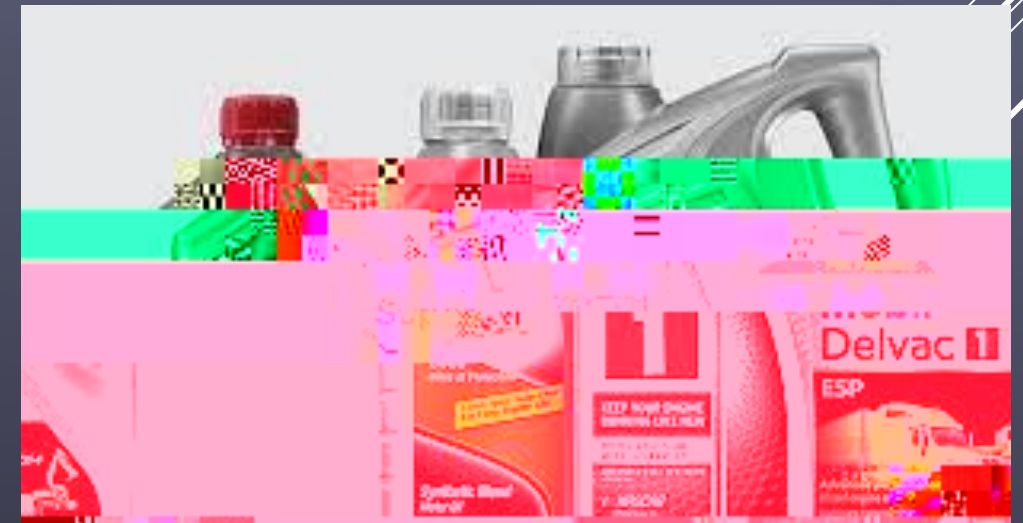
Standard oil vs. Synthetic oils

### 【SAE Viscosity Number of Engine Oils】

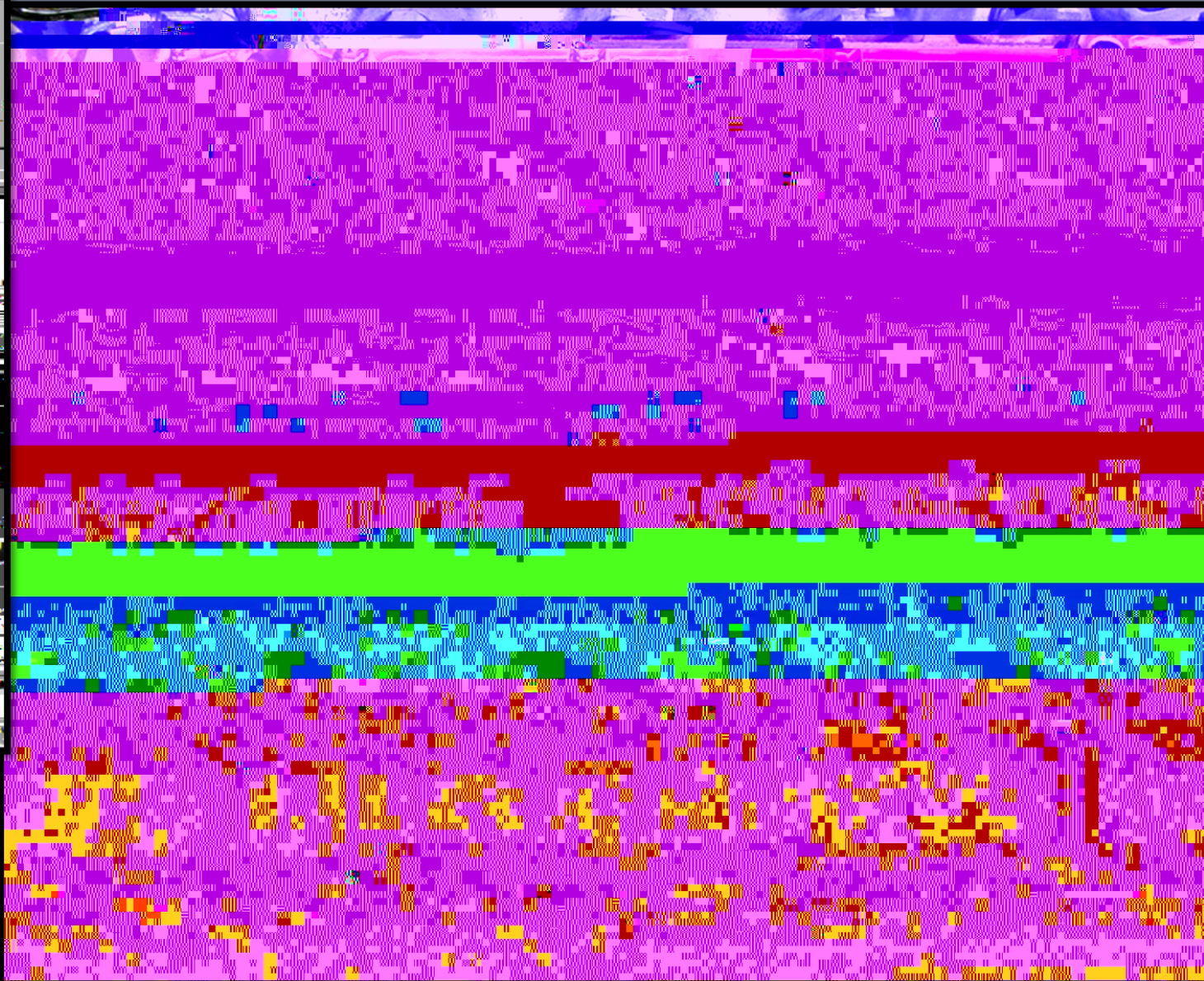
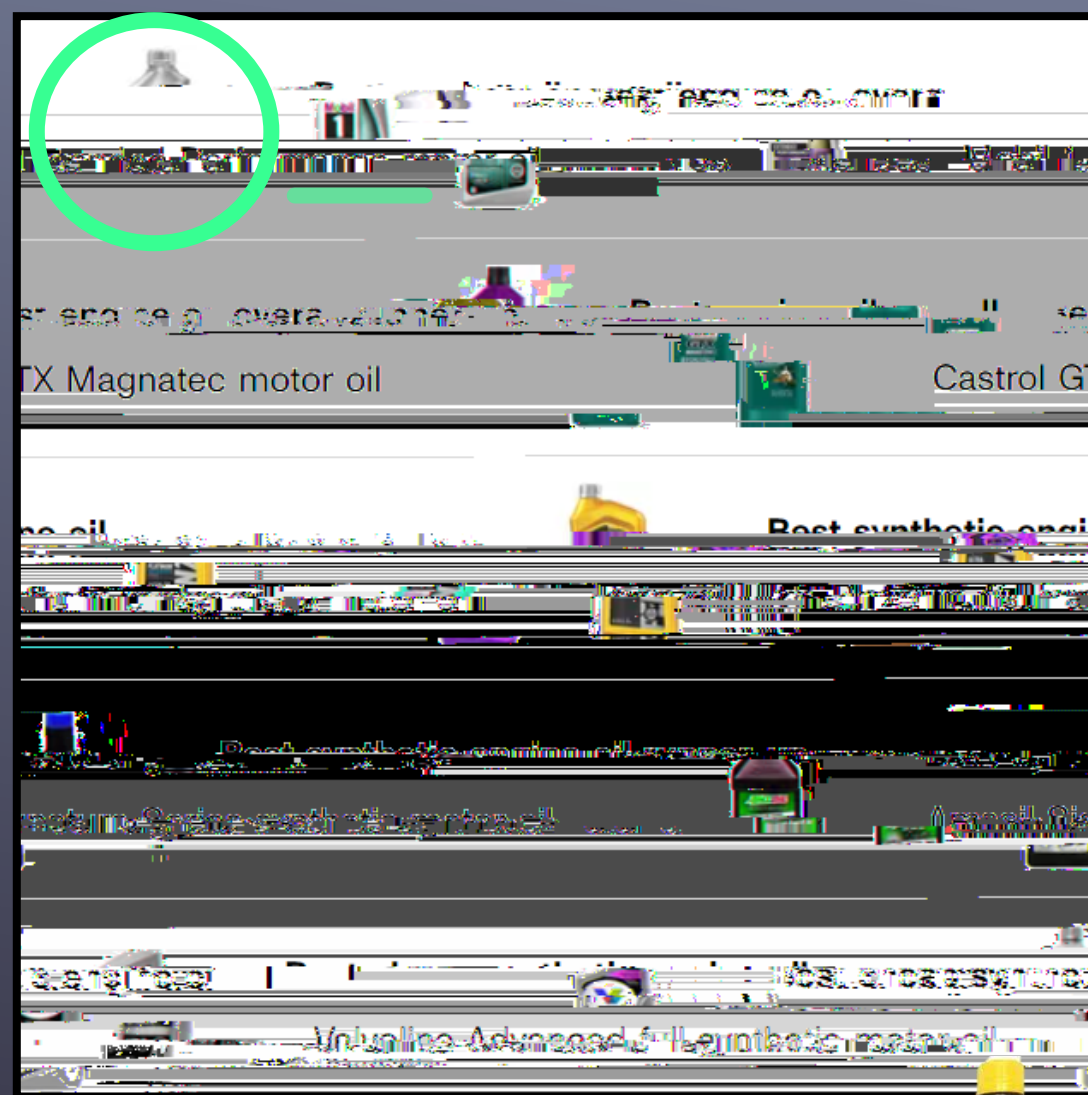
10W – 30

The viscosity grade under low temperature conditions.  
The lower the number, the better the cold startability.

The Viscosity grade under high temperature conditions.  
The larger the number, the higher the viscosity.





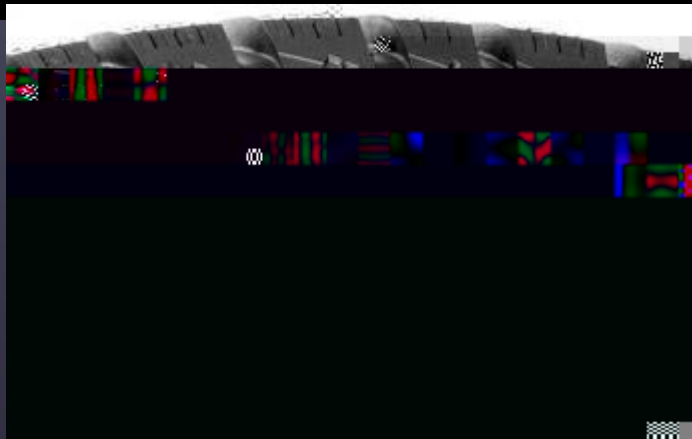
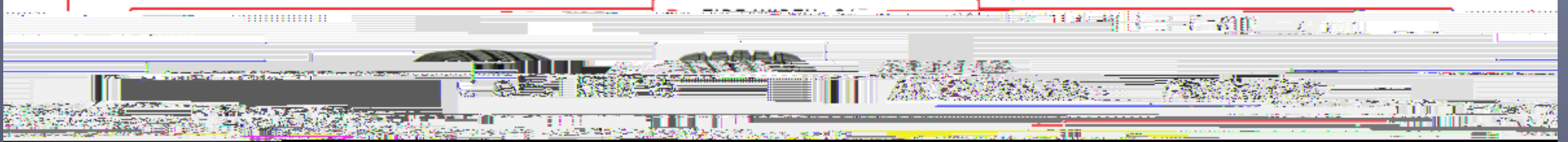


Dollar General



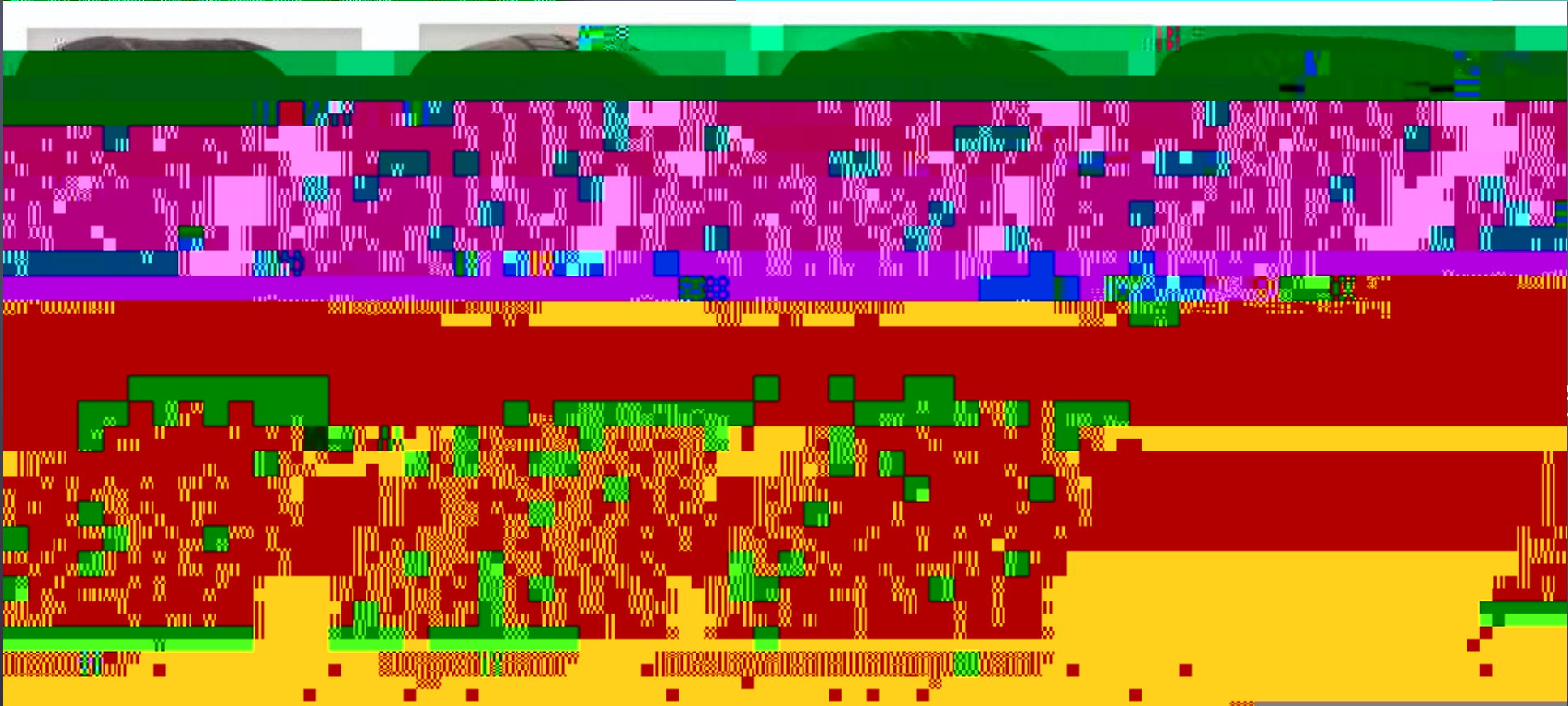
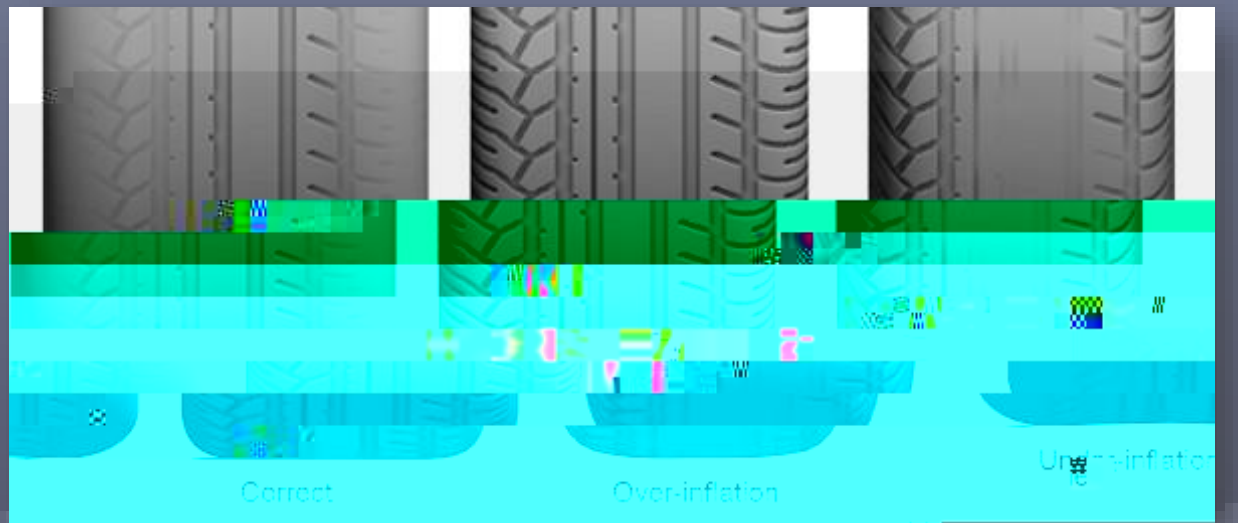
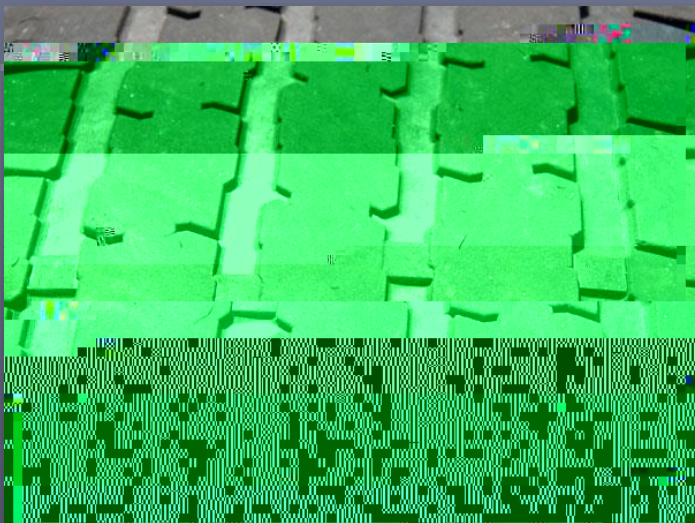


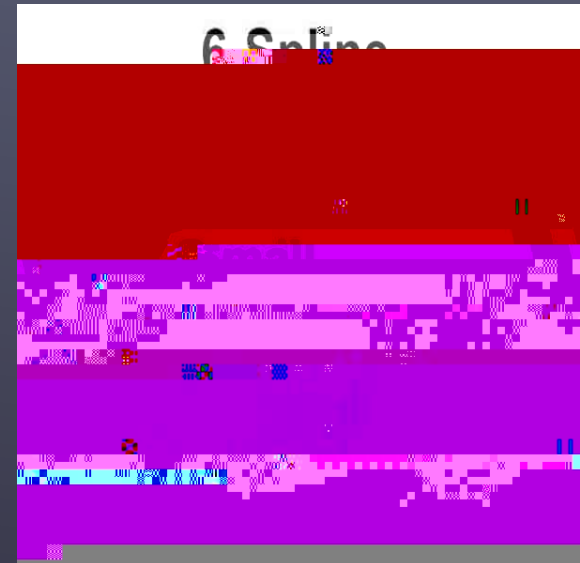
## A: TIRE TYPE









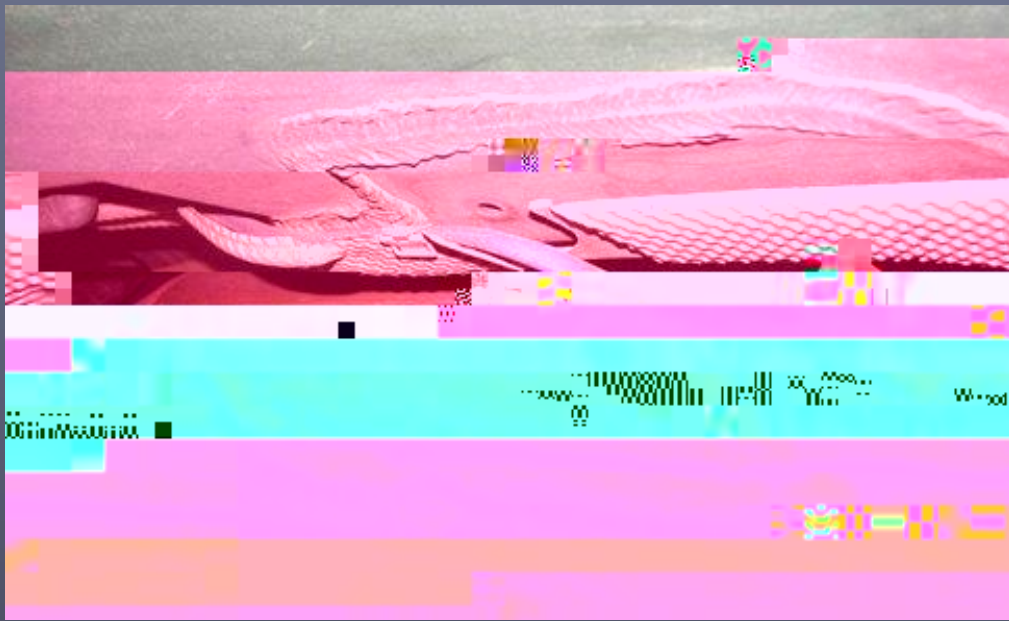


- Instability at highway speeds.
- Vehicle "tips" to one side in turns.
- The front end dives more than expected during hard braking.
- Rear-end squat during acceleration.
- Tires bouncing excessively.
- Unusual tire wear.
- Leaking fluid on the front of the chassis.

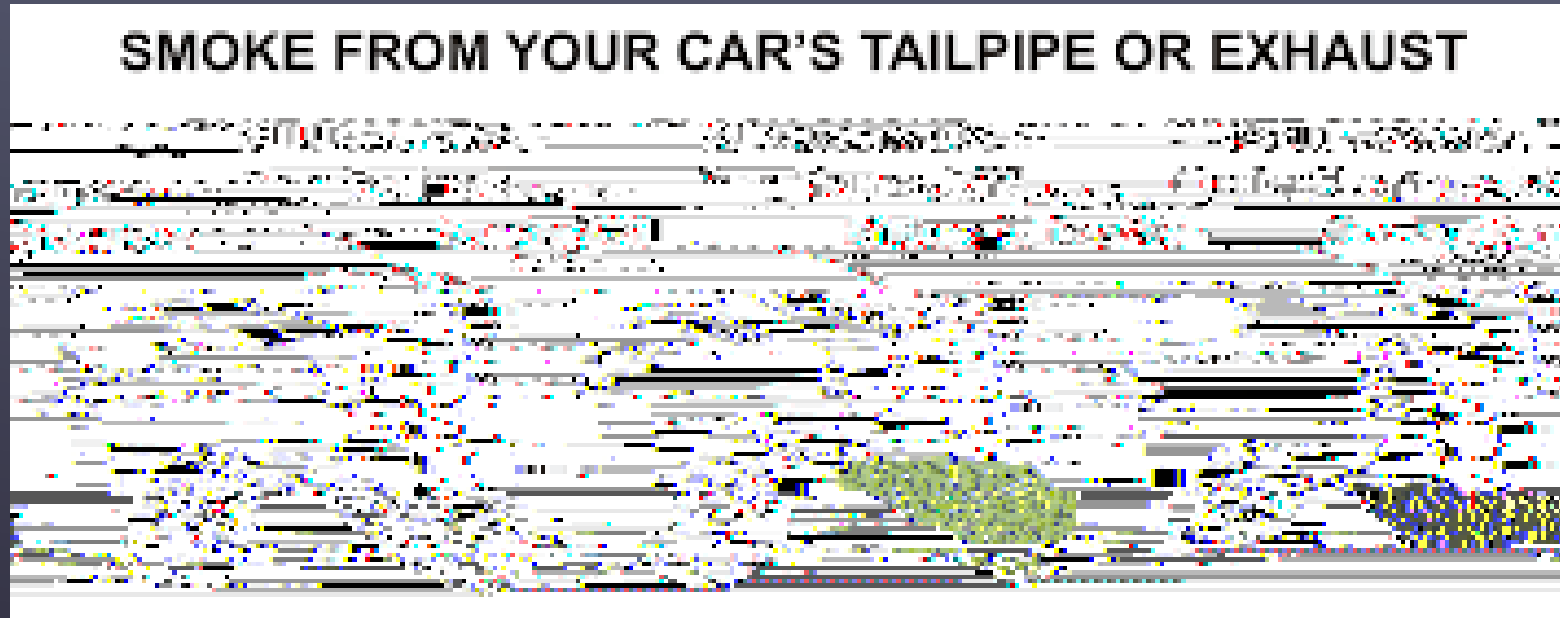
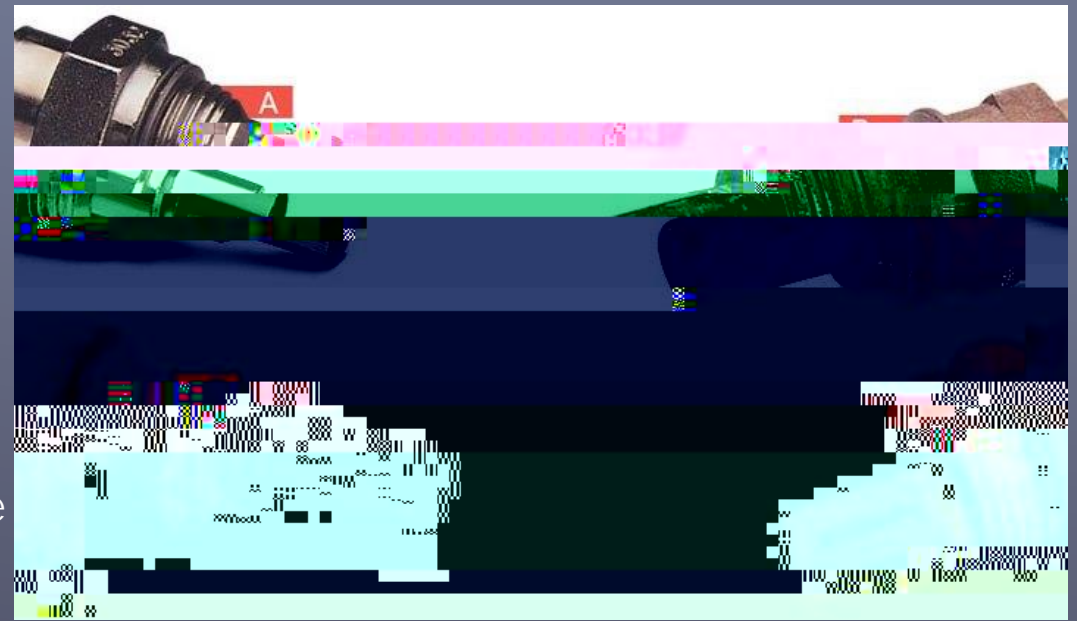
© 1996 Ford Motor Company



- Octane rating is the measure of a fuel's ability to resist "knocking" or "pinging" during combustion, caused by the air/fuel mixture detonating prematurely in the engine.
- In the U.S., unleaded gasoline typically has octane ratings of 87 (regular), 88–90 (midgrade), and 91–94 (premium).



O2 Sensor  
P0251-255 code



## SMOKE FROM YOUR CAR'S TAILPIPE OR EXHAUST





THESE ARE THE BEST OF US



THESE ARE THE BEST OF US