

An Engine Oil Replacement Timeline

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Abstract—Engine oil conditions are crucial either for the proper engine function and to calculate the oil's lifetime. Factors like rotation per minute, temperature, trip length, clarity of the oil is important to determine the level of contamination of the engine oil. Thus, the type of engine heating cycles, the power of the engine and the components of the oil used are also factors that determine whenever oil replacement should occur. Therefore, analyzing oil contaminations matters when it comes to replace it again. Consequently, manufactures and mechanics recommendations are not always the best, leading to consequences such as corrosion and sludge in the engine. So, this work focuses on engine oil parameters and environmental conditions to estimate the optimal oil replacement intervals, here given in terms of a replacement timeline, which may also contribute to a better environment that embodies all living and no living things on Earth.

Keywords—Artificial Neuronal Networks, Energy and Environment, Engine Oil Replacements, Logic Programming.

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