

PERFORMANCE TESTS

Oxidation Test

SCOPE:

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4/00

The EMA have indicated a desire to have a diesel-fueled oxidation test as one of the tests for PC-9. Their recommendation has been the John Deere JDQ 78A oxidation test.

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2/00

At the April 26th HDEOCP meeting, the PC-9 oxidation test task force recommended that the PC-9 bulk oxidation test should be the Mack T-10 run at a minimum of 235°F oil gallery temperature using an integrated I.R. of the carbonyl peak as the pass/fail parameter. This recommendation was made instead of the John Deere JDQ 78A test, and it was accepted by vote of the HDEOCP.

TEST CONDITIONS:

Same as T-10 with 235°F oil gallery temperature for phase two.

STATUS:

At the September 26 HDEOCP meeting, data was presented which showed a high degree of correlation between the T-10 I.R. oxidation results and the Sequence IIIF test. In addition, these data showed that the IIIF is a more severe oxidation test than the T-10.

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10/01

At the October 16 HDEOCP meeting the Sequence IIIF at API SL limits for viscosity increase and oil consumption was endorsed as the oxidation test for PC-9.

October 2001