

A NOVEL POLYMER-SURFACTANT COMPLEX MIXTURE TO IMPROVE DIESEL FUEL FLOW IN A ROTATING DISK APPARATUS

Mohamad Amran Mohd Salleh^{1,4,*}, Musaab K. Rashed^{1,2}, Hayder A. Abdulbari³ and M. Halim Shah Ismail¹

¹Department of Chemical and Environmental Engineering Faculty of Engineering Universiti Putra Malaysia 43300 UPM Serdang, Selangor, Malaysia

²Institute of Technology Middle Technical University Baghdad - Alzafaranya P. O. Box: 29008, Iraq

³Centre of Excellence for Advanced Research in Fluid Flow Universiti Malaysia Pahang Gambang, 26300, Kuantan, Pahang, Malaysia e-mail: hayder.bari@gmail.com

⁴Material and Processing Technology Laboratory Institute of Advanced Technology Universiti Putra Malaysia 43300 UPM Serdang, Selangor, Malaysia

Received: March 27, 2016; Accepted: June 12, 2016

2010 Mathematics Subject Classification: 76-XX.

Keywords and phrases: polymer, surfactants, drag reduction, complex mixtures, rotating disk apparatus (RDA).

*Corresponding author

Communicated by Shahrdad G. Sajjadi