

Online International Conference TECHNIUM 2020

VOLUME PREFACE

DOCUMENTS FROM TECHNIUM 2020

New trends on Local Research, Sustainable Future and Technology Development



TECHNIUM
CONFERENCE

Bucharest Hosted
2020

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Technium Social Sciences Journal (ISSN: 2668-7798)

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TECHNIUM International Conference 2020

New trends on Local Research, Sustainable Future and Technology Development



Participation is confirmed by participation certificate issued to all online presenting authors.

The objectives of the International Scientific Conference – Technium 2020 are to bring together research and education and to provide a networking opportunity for academics, professionals active in these domains. International publishing and recognition of scientific work.

Technium Conference 2020 brings together researchers and practitioners (young and experienced) interested in strengthening the scientific foundations in the fields of Engineering, Sciences, Information Technology, Ecology & Marine research, Technical research.



Selected papers will be published in:

- ***Technium: Romanian Journal of Applied Sciences and Technology (ISSN: 2668-778X)***
- ***Technium Social Sciences Journal (ISSN: 2668-7798)***

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The Scientific Committee is responsible for designing and proposing the annual research agenda and work programme as well as for overseeing the implementation of the approved activities. Moreover it formulates the longer-term research strategy of the network.

Specifically, the role of the Scientific Committee is to:

- Conceptualise and design the workshop programmes and oversee the selection of papers and participants;
- Advise on, and contribute to, the scientific content of the Network's website;

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Conference Preview



Technium Conference's
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11,350 km² (4,380 sq mi), and dimensions 280 km × 80 km (174 mi × 50 mi). Its greatest depth is 1,370 m (4,490 ft) [11]. The study area is shown figure 1. The Marmara sea has a high level of ship density. In Tekirdağ and Balıkesir coasts, the water depth level is lower than other regions.

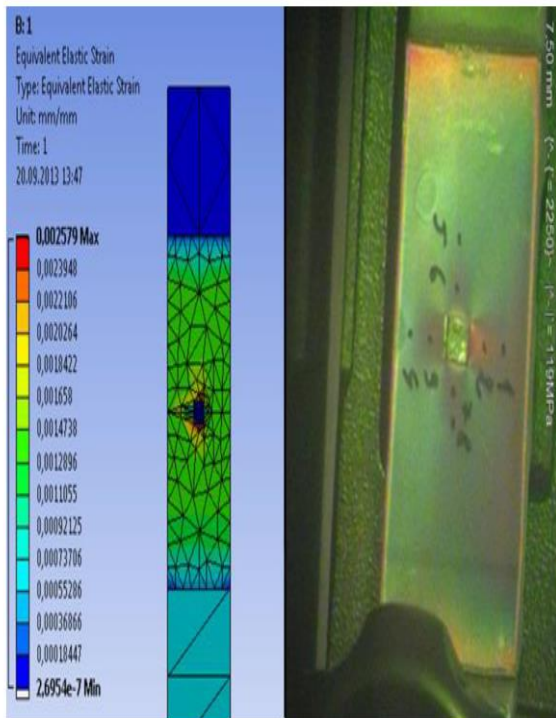


Fig. 9. One inclusion sample.

Introduction

In the paper, the rapeseed rheological analysis of dynamic shear rate – viscosity relationship of the rapeseed obtained from good rapeseed by mechanical and refining was carried out at gradient temperatures, providing scientific foundation for the rheological application of rapeseed oil industry [18].

Materials

Vegetable oil used in this work is provided by a company in Bucharest, Romania. In our investigation we used only refined rapeseed oil.

Methods

Vegetable oils have investigated using a Haake-VT 550 Viscoester developing shear rates ranging between 3 and 120 s⁻¹ and measuring viscosities from 10⁻⁴ to 10² mPa.s when the HV viscosity sensor is used. The temperature ranged between 10 and 90°C and the measurements were made from 10 to 10°C. The accuracy of the temperature was 0.1°C.

Results and discussion

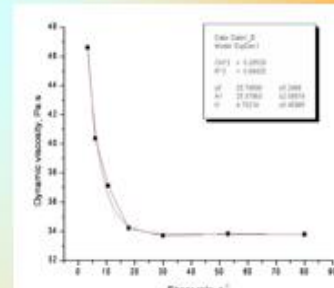


Figure 1. Relationship between viscosity dynamic and shear rate of rapeseed oil at 10°C

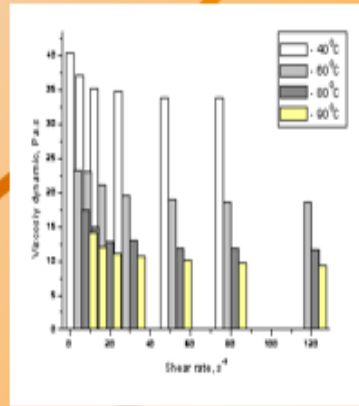
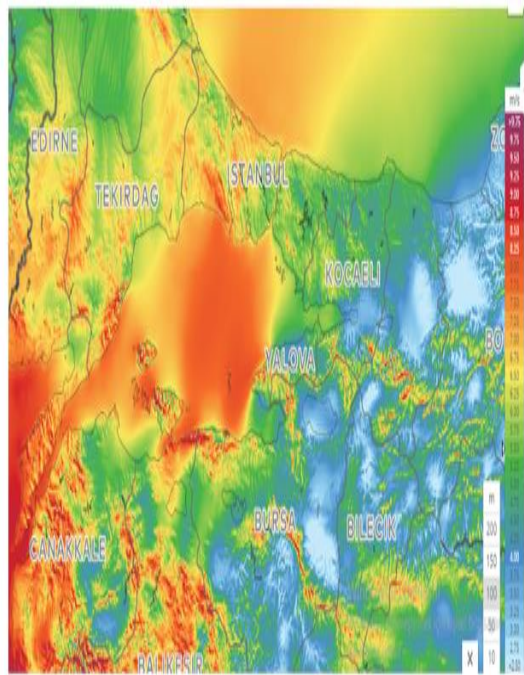


Fig. 5. Relationship between temperature and viscosity of rapeseed oil and at constant shear rate

Conclusion

Refined rapeseed oil is pseudoplastic behavior at all temperatures studied. Graphic representation of dynamic viscosity dependence on shear rate shows a decreasing exponential constant temperature in which correlation coefficients have values between 0.99425 and 0.99548. Rheological study of the oil extracted from rapeseed shows that at higher shear rates of $20s^{-1}$ dynamic viscosity does not show significant declines, becoming almost linear portion.

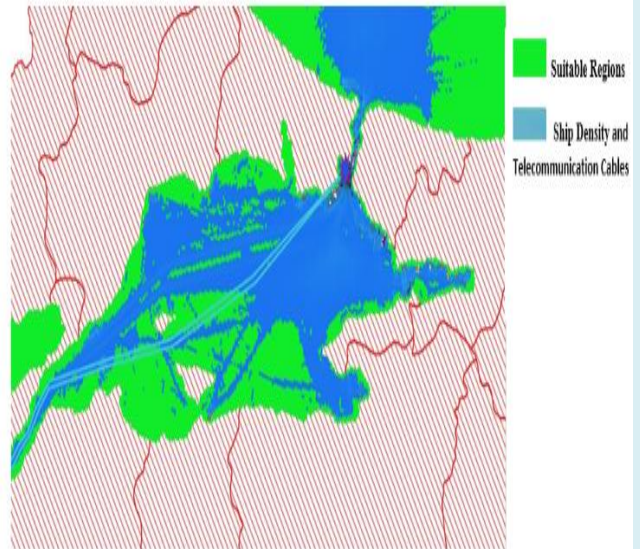
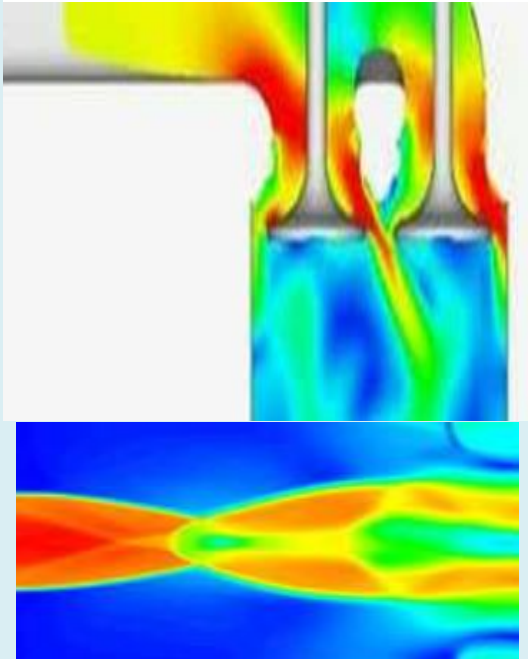


Figure 9. Suitable Areas in the Study Area

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