

TECHNICAL REPORT

ISO/TR
18588

First edition
2023-09

Petroleum products — Characterization of marine fuels by viscosity-gravity constant

*Produits pétroliers — Caractérisation des combustibles pour la
marine par la constante viscosité-gravité*



Reference number
ISO/TR 18588:2023(E)

© ISO 2023



COPYRIGHT PROTECTED DOCUMENT

© ISO 2023

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Characterization of petroleum fuels	1
4.1 General	1
4.2 BMCI (or CI)	2
4.2.1 General	2
4.2.2 Calculation of BMCI (or CI)	2
4.2.3 Algorithm to calculate BMCI (or CI)	4
4.3 Viscosity-gravity constant	4
4.3.1 General	4
4.3.2 Calculation of VGC	4
4.3.3 Algorithm to calculate VGC	4
5 Samples data analysis	5
5.1 General	5
5.2 BMCI versus VGC and density for fuels with S content $\leq 0,50\%$ by mass	5
5.3 BMCI versus VGC and density for fuels with S content $\geq 0,50\%$ by mass	6
5.4 Significance and use of VGC	8
Annex A (informative) Algorithms to calculate SG, BMCI and VGC	10
Bibliography	12