

: O_2, N_2, P, S $Ca, Ba, Zn, Al, Ni, Mo.$

[3, 4]

$$v^* = v' + \frac{4f\ddagger}{z\tilde{S}}, \quad (1)$$

$z = \sqrt{-1}; S =$; $\ddagger =$; $v' =$

[5],

$$\ddagger = \frac{n_0 q^2}{6fa_0y}, \quad (2)$$

$n_0 =$ () ; $q =$; $a_0 =$; $y =$

(2) (1)

$$v^* = v' + \frac{2}{3} \cdot \frac{n_0 q^2}{a_0 z \tilde{S} y}, \quad (3)$$

(3), , -
 -
 *, -
 v', , q, -
 n₀, a₀, -
 S. -
 :
 - :

[6, 7, 8].

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 , -
 . -
 , -
 . -
 , -

SAE 15W-40,
 : (305-73);
 (-40); (-0,20(-25)); -
 (Fe),

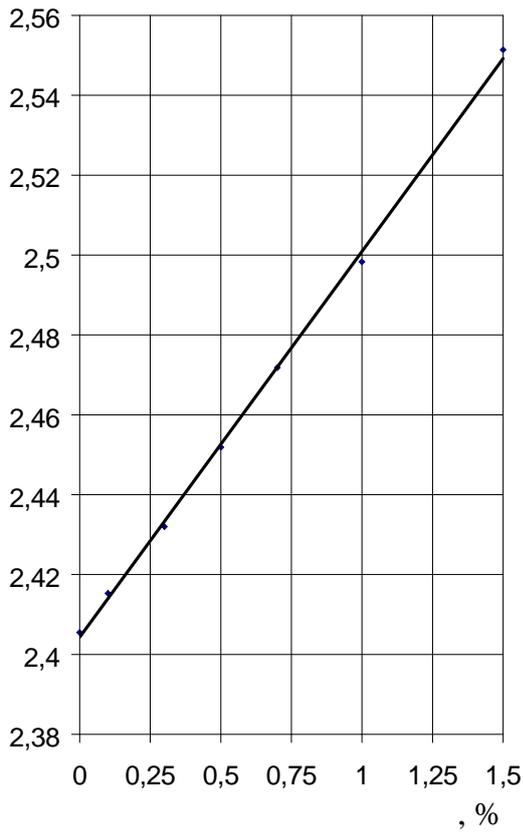
Detroit Diesel, 1,5 % 7,0 % .

, .1, .2, .3 .4.
 .1 , -

$y = 0,0966x + 2,4043,$ -
 1,5 % (.) $\Delta v = 0,1459.$ -

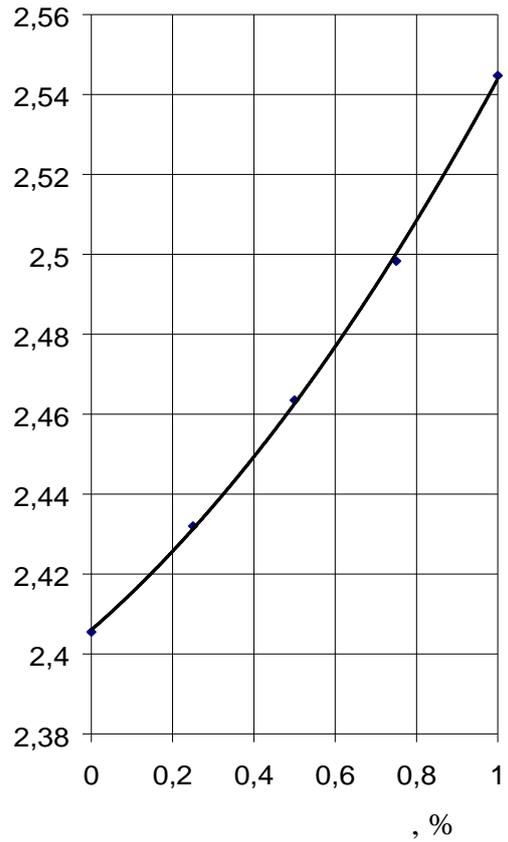
(-40) . 2.

$y = 0,0491x^2 + 0,0888x + 2,4060,$ 1,0 % (o .)
 $\Delta v = 0,1392.$



. 1.

SAE 15W-40



. 2.

SAE 15W-40
-40

. 3.

(Fe)

$$y = 0,0004x + 2,4055,$$

150 / , $\Delta v = 0,0597$.

$$y = -0,0011x^2 + 0,0032x + 2,4048,$$

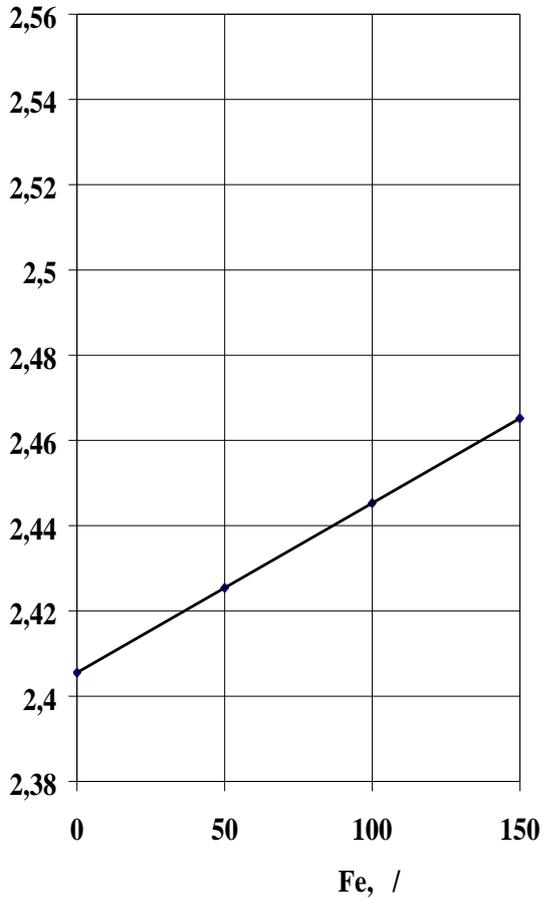
7,0 % , $\Delta v = -0,0331$.

. 4.

2,2862.

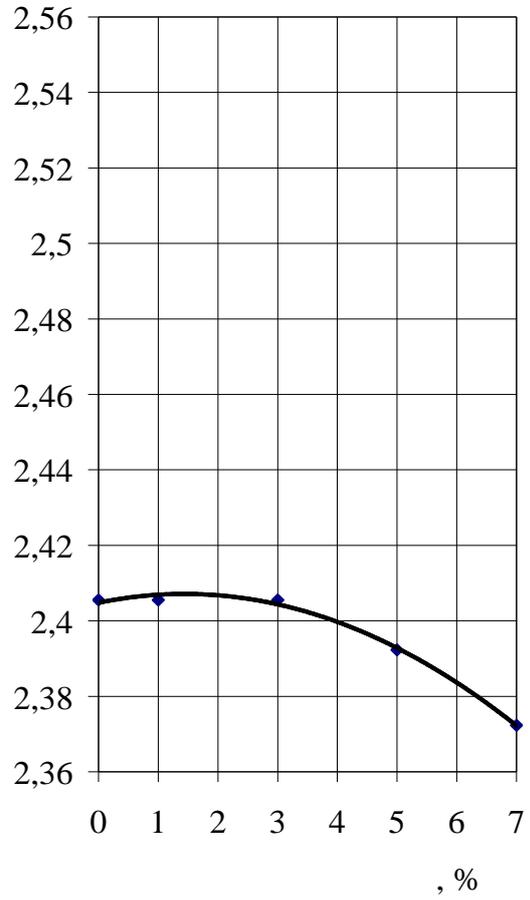
Δv ,

Δv ,



. 3.

SAE 15W-40
Fe



. 4.

SAE 15W-40

Δv ,

7,0 %

Fe

Δv .

0,0597.

150 / ,

: 1.

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25.

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169 –

175. 2.

3. // . - 2007. - 20. - . 84 - 87.
 . - .: , 1972. - 203 .4.
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 . - : , 2003. - 168 .8.
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23.10.07

666.972

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 . . , . . ,

297...1773 .

Conditions of receiving outgoing compositions and change of phase composition of protective coating during heating have been studied. Optimal compositions, formation conditions and features in temperature intervals 297...1773 K have been determined.