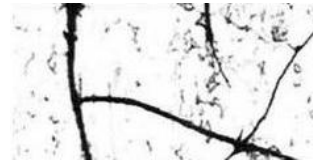


It is certain, that the basic technological reason of poor quality Domestic combine and auto-tractor engines, there was a underestimation materiology aspects during reception of materials and manufacturing of details. It is shown, that developed technology mutual operational development of details should be accepted, as the basic technological precondition for reen-gineering systems of manufacture, repair and operation combine and autotractor engines.

• , -
3,0 0,8 . , -
, , -
- , -
- ()
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« » -
, , -
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, -
, ,
(200 20) CPN-200 (Ni-Co-P , Si₃N₄), -
, -
— -
500 (GOETZE). , -
, -
, « -
» -
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(. 1[1]), -
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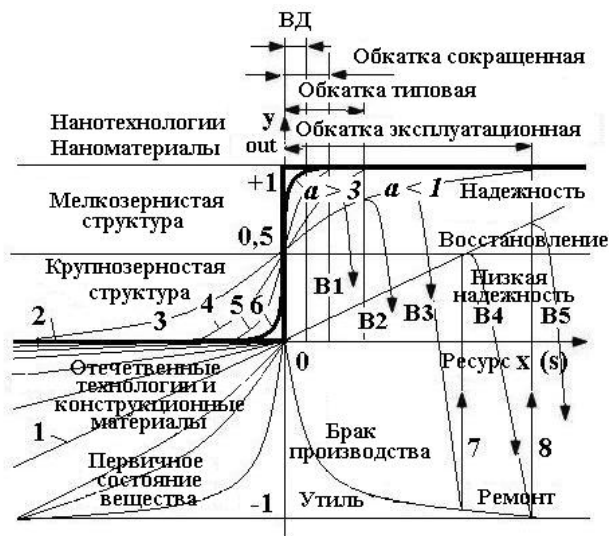
. 1.

:) 3 ;) 5 ;) 10

, (, , « -3»),
70 – 80-
90-
()
[2]:
$$F(s) = \frac{1}{1 + e^{-as}}, \quad (1)$$

 $F(s) - s,$
1, 1, 2).
(3-6). 100% -
2.
+1),
2,
1-
1 5 (-4

$$D_m = 1/10^{-6} = 10^6).$$



.2.

[3].

$$D_i = 10^7 - 10^8.$$

()

(= 6)

$$- 10^9 - 10^{12}.$$

(. 1- 5),

[4].

1-

2-4-

1-

1-

2-

100

-14 (4 12,0/14,0)

60-

[8],
 S_I
 $S = 0$,
 Q_I
 $S = 0,75$
 Q
 Q_I
 $S_I -$
 Q
 $0,05$
 S

$$\gamma = \frac{\Delta D}{D} \cdot 100\%, \quad (2)$$

D
 $D -$
 120
 Q_I
[5]:

$$= \frac{14,14Q}{b \cdot S_0 \psi} (p/t - 1)^3, \quad (3)$$

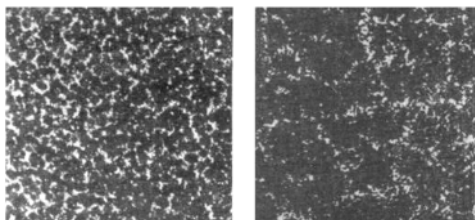
$Q -$
 (S_I)
 $S = 0,75$
 $S_0 = (S_I - 0,75)$
 $0,979$
[5]:

$$Q = \frac{Q_I}{k}, \quad (4)$$

$k -$
 h_r
 $2,6$
 -7 [6].
 $2-5\%$

[7].
 $S_I = 16,0$
 $50 \cdot 10^3$
 $115 \cdot 10^3$
 1 .

S_I ,	10^3 ,	Q ,	,%	h_r ,
16,0	115,9	188,4	1,4	73,03
19,0	98,3	225,6	2,5	100,74



16,0 , $S_I =$

$S_I = 19,0$

(),

.3.)

() [7]

$= (19,05 - 20,35)$

$Q = (71,3 - 94,3)$

$h_r = 100,0 -$

$60,2 - 79,6$

$h_r = 82,3$, $h_r = 52,9$,

$Q = 84,9$, $- Q = 142,3$.

$1,03 /$.

$(0,44 - 0,60) /$.

$Q (\dots 1)$.

» [9].

[10].

[5,7]

1.

; 1)
 ; 2)
 ; 3)

2.

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<http://www.avtramat.com> 2.
 : / // . 91.- .36-51. 3.
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20.05.2010 .