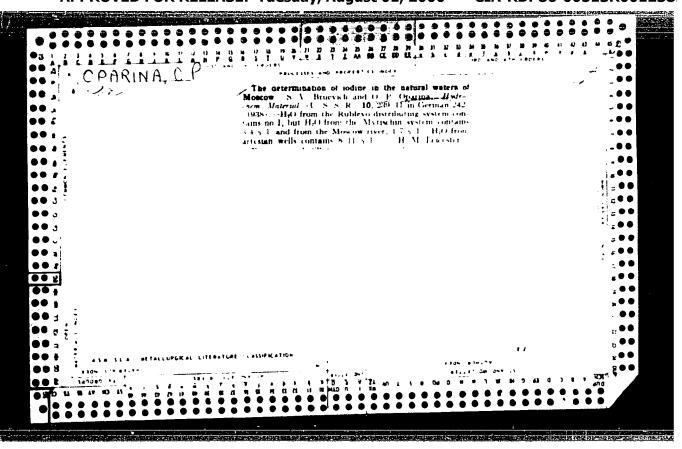
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KONDAKOV, N.P., kand.tekhn.nauk (Novosibrisk); AKULOV, V. Ye., inzh. (Novosibirsk); OPARINA, N.A., tekhnik (Novosibirsk)

Performance of the R65 rails on the track. Put'i put.khoz. 5 no.2:11 F '61. (MIRA 14.3)

(Railroads—Rails)
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Life of R-65 rails in railroad tracks. Stall 22 nc.1:71-72 Na 192. Ella 11 1. Rovosibirskiy institut inzhenerov zhelezno-ucrozhnogo transporta. (RailroadsRails)	•	, V.Ye.; OFARINA, N.A.
transporta.		AIR_{-} A_{-} AIR_{-}
(;ailroads—;ails)		iy institut inzhenerov zheleznc-derozhnogo
	or amportant	(Hailroads-Hails)



OPARINA, O.P.; MITTAGINA, O.V.

Determination of soluble oxygen in the presence of ferrous salts.
Gldrokhim.mat. no.20:92-97 '53. (MLRA 7:3)

1. Institut obehchey i kommunal'noy gigiyeny Akademii meditainakikh nauk SSSR Moskva. (*ater--Analysis) (Oxygen)

SENTYURIKHINA, L.N.: OPARINA, Ye.a.: PISAREVSEATA, Ye.B.

Thickening power of calcium and lithium soaps of acids isolated from exidized petroleum wax. Trudy VNII NP no.7:359-366 '58.

(MIRA 12:10)

(Metallic soaps) (Paraffins)

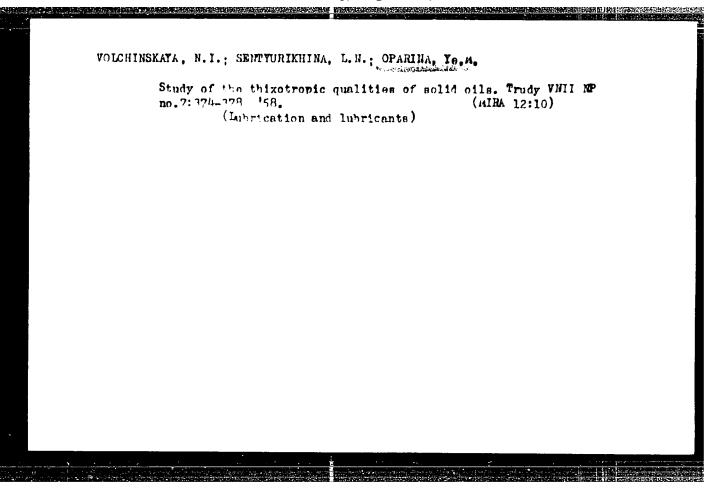
(Lubrication and lubricants)

OPARINA, Ye.K.; SENTYURIKHINA, L.N.; PISAREVSKAYA, Ye.B.

Biffect of unsaponifiables of oxidized petroleus wax on the properties of greases. Trudy VNII NP no.7:367-373 *58.

(MIRA 12:10)

(Lubrication and lubricants) (Paraffins) (Oxidation)



\$/081/60/000/000g/ 5/

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 3, r. 504 # 1991

AUTHOPS

Sentyurikhira, L N Opa

Oparina, Ye M.

TITLE

Molytdenum Disulfide, a New Littigan.

FERIODICAL. Tr Vses n.-1 in-t pt pare-maticike next i gaza i p.22.0-miv iskusstv znidk toplica, 1958, No 7 pp 403-409

TEXT. The purification process is described in movidences of the Vostochno-fournadskiy deposit, which makes it possible to obtain Mode with a purity of 98 6%. Trushing, sifting, fictation, and treatment of movidence he chemical reagents (HI). He were used in the porification. In the grinding of pure MoS, the best results were obtained with dry grinding in a jet mill and crushing of MoS, suspensions in volatile liquids valuable, tilled displaying water, with the application of diffusional Methods were described in applying MoS, films on rubbing surfaces by mans of rubbing substances (various yourself resins) and solvents.

Card 1/1

sov/81-59-13-47276

15.6400

24.1900 Translation from: Referativnyy zhurnal Khimiya, 1959, Nr 13, pp 432 - 433 (USSR)

AUTHORS:

Yermilov, A.S., Oparina, Ye.M.

TITLE:

The Increase in the Thermal Stability of Silicon Liquids by Means of

Ultrasound and Antioxidation Admixtures

PERIODICAL:

nli <u>in-ta topliva, 19</u>58, Nr 7, pp 409 - 414 Tr. Vses.

ABSTRACT:

The action of ultrasound on the thermal stability of silicon liquids (SL) has been investigated. The liquids were irradiated for 1 - 20 minutes at an ultrasonic frequency of 300 kc, an intensity of 40 - 60 w/cm², a layer thickness of 49 mm. The thermal stability was studied by the kinetics of the change in the kinematic viscosity at $20\,^{\circ}\text{C}$ and the time of gelatinization of SL exposed to ultrasound in dependence on the time of thermostatic regulation at 200°C. It has been shown that non-irradiated SL gelatinize after thermostatic regulation in the course of 90 hours, whereas irradiated SL preserve their fluidity for 120 - 150 hours For several SL the optimum time of irradiation proved to be 4 minutes, and the stability

Card 1/2

48988

SOV/81-59-13-4727m

The Increase in the Thermal Stability of Silicon Liquids by Means of Ultrasound and Antioxidation Admixtures

of SL increased 1.6 times and more. At the addition of anti-oxidation admixture (aldol- \circ -naphthylamine) to irradiated SL their thermostability increase still more

G. Margolina

Card 2/2

5:11 8110

11.9560

Al'shits, I. M., Obarina, Ye. M., Centyurishira, L. M.,

Sushkina, I. N.

77.77.3 Experimental use of motybdenum disalting to a litricant

Referativnyy znuchal. Khimiya, no. 1, 1941, 474, ac to 1774 34 (Tr. f-y ises. konferentsi. to in niya i in niya i mashinakh. V., 48 USSR, v. f. 1960, 177-177 PERIODIDA D

 $T^* : X^m$ Tests made with MoS₂ (in lowder form, and also as a salte or a first with binding agents) on friction machines and pilot charts have shown that at high specific pressures this compound presents certain advantages over wither lubricant tested at the same time (graph;te, lutricants Nu-THM). De (TsIATIM-208), ЦИАЛИМ-221 (TsITIM-221), and others. Positive is a were also achieved by using MoSo as a protective agent against itetting corrosion, and by cold-rolling hibbed pipes from aluminum inclusion [Abstractor's note | Complete translation.]

Cari 1/1

84.751

S/065/60/000/007/005/008/XX E194/E484

26,2192

Sentyurikhina, L.N <u>Oparina, Ye.M.</u>

e.M. Rubtsova, L.S and

TITLE

AUTHORS .

Solid Lubricant Coatings

Suvorovskaya N.A

PERIODICAL Khimiya i tekhnologiya topliv i masel, 1960, No.7, pp 24-29

Published work, mostly foreign on solid lubricants is TEXT: briefly reviewed. The original experimental work described here was concerned with molybdenum disulphide. \ Solid lubricants have poor protective properties the lubricating film if once damaged may not be easily replaced and they do not extract heat service life may be increased by binding them to the metallic surface by appropriate treatment. Very finely divided powders are necessary to secure good adhesion to metals. The surface to be treated must also be of good finish and the present tests were made with surface finishes classes 10 to 12. i.e. with average height of roughness of 0.05 to 0.1 microns The usual methods of depositing solid lubricants on metal surfaces are described. The choice of binder is discussed, the most heat resistant resins produced in the USSR being silicone and combinations of silicones with acrylic and Card 1/3

X

84981 S/065/60/000/007/005/008/XX E194/E484

Solid Lubricant Coatings

epoxide polymers. V The hardening treatment used depended on the properties of the binder the temperatures ranged from 150 to 350 C. depending on the resin used. The choice of solvent for deposition of resin and solid lubri; ant is important ethanol was used in the tests because it is particularly convenient for use with the molybdenum disulphide which was used Data on the permissible dilution of the resin with ethanol is given in Table 1 Tests were made with suspensions of molybdenum disulphide ranging in concentration from 6 to 37% and the relationship between film thickness and molybdenum disulphide concentration is given in Table 2. Uniform films could not be obtained with molybdenum disulphide concentration below 10%. The adhesion of the solid lubricant coatings to metal surfaces was assessed by adhesiometers of the Deryagin and Orlov systems by a press tool and in other ways However difficulty was experienced in making the assessment because the film could not be removed as a thin sheet Information about resistance of the coating to rubbing was obtained in an instrument in which a shaft rotating at constant speed is pressed against a sheet coated with solid lubricant As soon as the film of solid Card 2/3

84 ...

S/065/60/000/007/005/008/XX E194/E484

Solid Lubricant Coatings

lubricant is worn off there is metal to metal contact and a lamp is lit. The time required to break down is a criterion of mechanical strength of film. Test results with molybdenum disulphide films ranging from 1 to 39 microns thick are given in Tables 3 and 4. Further results obtained in a Timken tester are given in Table 4. It is shown that the quality of the film depends on the nature of the binder, the method of deposition of the film, the conditions of hardening and the thickness of the film. There are 1 figure 4 tables and 10 references 4 Soviet (one of them probably translated from English). 4 English and

ASSOCIATION VNII NP

Card 3/3

0/661/61/000/000/00004 103 + 103 + 104 + 105 + 1

AUTHORU: Opurina, Me. M., Pubyanskuya, G. S. and Moradicov, A. S.

Investigating thermal stability of polybiles are flates m-m-:::

Aliziya i prantieneskoye primeneniye kreameorganisha-SOURCE: kikh boyesi eniy; trady konferentbii. no. o: Dunkiy, dishusbii, resheniye. II Vses. konfer. po hhadii i makt. prim. breimeorg. styed., Len., 1958. Leningrad, Ini-vo

MM ESSR, 1,61, 181-134

TEXT: A displacation on a provious report (no. 2, p. 80, this put-lication) in which Ye. M. Opirina, A. K. Andrianov (Moucow), L. V. Gernets (Moscow), N. N. Sokolov (YEI, Moscow), I. P. Penemarev, Politekhnichskiy institut, Novocherkassk (Novocherkassk Pilytechnic Institute) and I. A. Zabhov (Moscow) took part. The author defended her opinion that irradiation with ultrasonics has in general a favorable effect on the thermal stability of liquid organosilicon pplymers. The opponents concluded that resent methods for determining the stability of polysiloxanes ought to be revised and more suitably adapted for definite purposes. Card 1/1

5/065/61/000/007/001/005

2550I E030/E435

AUTHORS .

Sentyurikhina, L.N., Malyshev, B.N., Oparina, Ye.M.

Rubtsova, Z.S.

TITLE:

Solid high temperature high vacuum greases

PERIODICAL Khimiya i tekhnologiya topliv i masel, 1961 No.7, pp.13-16

An experimental study has provided the optimum method of applying molybdenum disulphide to metallic surfaces as a lubricant The films are stable up to decomposition temperatures which depend on the nature and pressure of the gas as follows: inert gas, at atmospheric pressure, up to 1300°C, in air, at atmospheric pressure, 45°C; 800° at 10-4 mm Hg, 900° at 10-5 mm Hg, The purity of the MoS_2 used was 99.5%. 1100° at 10⁻⁶ mm Hg. The poor adhesion properties of MoS_2 were best overcome by washing the metal surfaces in alkali to remove oxide films, and then spraying on a solution of MoS_2 . The nozzle to metal distance is fairly critical, the optimum being established at about 20 cm. Several types of solvent were tested: 1, those strongly adhering to metal (EMK-5 (BMK-5), 3 -41 (E-41)) (nitrocellulose). 2. those with carbonaceous ash on heating (K-2-12-01, 3-116 (E116)), Card 1/2

Solid high temperature ... 1902

S/065/61/000/007/001/005 E030/E435

3. thermally stable producing delicate films (K-55, i.e. polymethylphenylsiloxane resin), 4. thermally stable, producing elastic films. All solvents except K 55 gave films stripping completely on heating to 900°C. K-55 gave films, satisfactory according to incision tests for strength. To harden the film after application, it should be heated gently to 600°C, maintained at that temperature for 20 min then heated to 850 to 900°C and maintained at that temperature for 15 min. Tests on a stainless steel rotating cylinder showed the optimum concentration of MoS2 in the solvent to be 10%. At present such a suspension is manufactured under the name of FHMM MI-209 (VNII NP-209). There are 2 tables and 5 references: 4 Soviet and 1 non Soviet.

ASSOCIATION VNII NP

Card 2/2

OPARINA, Ye.M.; TUBYANSKAYA, G.S.; KOBZOVA, R.I.

Polyorganosiloxanes as liquid base of high-temperature lubricating greases. Khim. i tekh. topl. i masel 9 no.1: 32-38 Ja '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

ACCESSION NR: AP4009784

S/0065/64/000/001/0032/0038

AUTHOR: Oparina, Ye. M.; Tubyanskaya, G. S.; Kobzova, R. I.

TITLE: Polyorganosiloxanes--liquid base of high temperature greases.

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1964, 32-38

TOPIC TAGS: polyorganosiloxane, high temperature grease, polymethylsiloxane, polymethylphenylsiloxane, polyethylsiloxane, polymethylchlorophenylsiloxane, silicone, volatility, lubricity, viscosity temperature function, antiwear property, thermal oxidation stability

ABSTRACT: The physical-chemical properties of polyorganosiloxine liquids were evaluated to determine their suitability as liquid bases for high temperature greases. For operations up to 200C polymethylsiloxanes (PMS-20, PMS-50, PMS-100, PMS-400) are preferable than polyethylsiloxane with respect to physical-chemical, thermooxidative, stability and anti-wear properties, and preferable to polymethylphenylsiloxane with respect to viscosity-temperature and anti-

Cord 1/2

ACCESSION NR: AP4009784

wear properties. For greases to be used above 200C, polymethylphenyl, and polymethylchlorophenylsiloxanes are recommended. The thermal stability of the polyorganosiloxanes improves with an increase in number of phenyl groups. Thus polymethylsiloxane starts to decompose at 250C, while polymethylphenylsiloxane FM-1322/300 with a low phenyl content is stable for 520 hours, and PFMS-4 with a high phenyl content, is stable for 2600 hours. Above 350C none of these siloxanes are sufficiently stable for thermal oxidation. The lubricity of polyorganosiloxanes, especially the abrasion stability, is not particularly satisfactory. In this respect polymethyl- and polymethyl chlorophenyl siloxanes are better than polymethylphenylsiloxane. However none of these should be used under high speed or high load operations. "Determination of lubricity was conducted by V. A. Listov and co-workers." Orig. art. has: 3 figures and 3 tables.

ASSOCIATION: None

SUBMITTED: 00

SUB CODE: FP

DATE ACQ: 10Feb64 NR REF SOV: 004

ENCL: 00 OTHER: 010

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Card 2/2

KOBZOVA, R.I., TUBYANSKAYA, G.S., GPARINA, Ye.M., LEVKINA, N.K.

Stabilizing polysiloxane using antickidant additives.
Knim. 1 tekh. 1 topl. 1 masel 9 no.9:53-56 3 'mi.

(MIRA IT II

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po perersontae nefti 1 gaza 1 polucheniyu iskusstvennogo zhidkogo topliva.

L 21032-66 BIP(+)/BIT(+)/BIP(3)/T WI/DJ/GS/RM/WH ACCESSION MR: A75020135

VR/0000/65/000/000/0134/0138

AUTHORS: Operina, Ye. M.; Sentyarikhîna, L. M.; Daitriyeva, V. G.; Pisarevskaya, Ye. E.; Petrova, L. W.

TITLE: High temperature lubricants based on dyes

DD BH

SOURCE: AM SSSR. Mauchnyy sovet po treniya i smankam. Teoriya smanochnogo deystviya i novyye materialy (Theory of lubricating action and new materials). Moscow, Isd-vo Mauka, 1965, 134-138

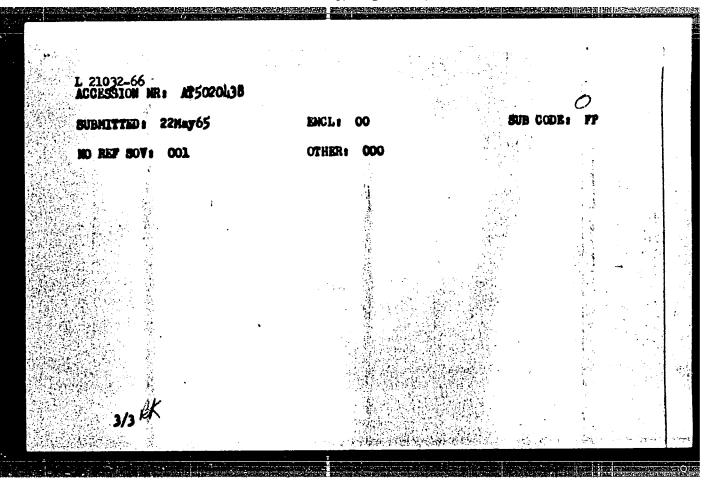
TOPIC TAGS: Ambricant, dye based lubricant, lubricant additive/ TelATIM 221s lubricant, PFMS 4 silicone fluid, ETs 3 centrifuge, FM1322/300 milicone fluid

ABSTRACT: Lubricants based on dyes which are stable up to 3500 were investigated. Polymethylphenyl-siloxane liquids with different methyl and phenyl group ratios (E.H. Operina 1 dr. Khimiya i tekhnologiya topliv 1 masel, 1961, Mo. 1) were used as the dispersion media. It was found from the volumetric mechanical properties that vat dyes blue "K," indigo, dioxyviolanthrone, and dimetoxyciolanthrone have weak thickening properties while the other dyes (pigment "SA\" vat dyes blue "N," "0," and isoviolanthrone) form lubricants which are similar in mechanical properties and colloidal stability to silicone lubricants (TalATIM-221s, for example). To

L 21032-66 ACCESSION NR: AT5020438

determine storage stability and high temperature stability, the lubricants were tested by the KSA method (350 gm load) and on heated contrifuge ETs-3 (at 1500 for 5 hours) respectively. It was found that with PFMS-4 fluid the colloidal stability of good thickening dyes was better than that of less effective thickeners and comparable to TSIATIM-221s // Percent weight loss of lubricant based on different fluids (using pigment SA) was found to be 3.0, 4.2, 6.3 and 11.0% at 2500 and 0, 17.1, 18.0 and 29.1% at 3000 for PFHS-46 copolymer 2/300, copolymer 3, and FM1322/300 fluids respectively. It was also found that the plastic porperties, 1.0., effective viscosity and strength of isoviolanthrone-based lubricants (after heat stabilization), were practically unchanged after 1000 hrs at 1500. Indanthrens and isoviolanthrone silicone lubricants were tested in ball bearings at high speeds $(D_n = 300\ 000\ mm\ rev/min)$ at 1500 and 15000 kg/cm² and were found inferior to Telatim-221 lubricants. At lower speeds (to 10000 mm rev/min) and low loads the above lubricants operated longer than 1500 hours at 2000. Dyes can be used as thickeners in conjunction with graphite and molybdenum disulfide, giving up to 2500 hrs of service at 2000, 100 rpm, and 20000-25000 kg/cm2 (lubricant NK-50/fails after 8-10 hrs under these conditions). At lesser speeds and loads service of 3000 hrs at 3500 can be obtained. Orig. art. hass h tables. ASSOCIATION: Memchayy sovet po treniya 1 smanken, AN SSSR (Scientific Commiton Friction and Lubrication, AN SSSR)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001238



	F(o)/EWT(m)/TPr-4	UR/0065/65/000/005/0043/0045
ACCESSION NR:	AP5011690	0K/0003/03/000/003/0043/0043
LUTHORI Andri	anov, K. A.; Lavygi	in, I. A.; Tubyanskaya, G. S.; 2 X
Cobzova, R. I.	; Oparina, Ye. M.	UR/0065/65/000/005/0043/0045 in, I. A.; Tubyanskaya, G. S.; 28
TITLE: New he	at-resistant lubric	cating oils and additives
하루 살은 기존 상품, 최근 하는 경기를 때문.		topliv i masel, no. 5, 1965, 43-45
COPIC TAGS: s oxidative stab	ilicone, polydimeth	hylsiloxane, additive, thermal S 100, PMS 400
eftendim stome	in the backbone of	sence of 8-hydroxyquinoly1-substituted f polyorganosiloxanes on their thermal died to determine the suitability of re lubricants. To this end, a number
uch compounds	f the general form	u1a
uch compounds	f the general form	u1a CH, (1) O(SIO) ₆ SI(CH ₂) (1) (1)

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methylsisiloxanes and the thermal sented ir endent or was maximualed them in them in	loxanes. The part of the (8-hyd) mum at 0.18- the polydimat thermal-oxi	e new oligomer d -400, were stability is the gelation tabular form roxyquinolyl) to -0.30% Ti in the table stabili passed that of hat both oligo	ared by the con a-hydroxy-w-(t s and the conve ubjected to condeterminations. time at 300C. indicated that tanoxane group to oligomer. The lubricating party. For example PMS-100 by a femers of branches	ntional parative The The gelation concen- ne new coperties a, at
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ACCESSION NR: AP501169			
are also very effective of polydimethylsiloxane 2 formulas.	inhibitors of therma s. Orig. art. has:	l-oxidative degradation 4 figures, 1 table, and [SM]	
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	66 EWT(m)/EPF(c)/E N NR: AP5022227		/000/009/0035/003 .048.9	
AUTHOR:	Kobzova, R. I.; Levk Ye. M.; Tubyanskaya,	44 (1na, N. K.; Kudryavtsev	, A. S.; Savich,	I. A.; 44
TITIE:	Effect of some complemal oxidation	ex compounds on the stab	ility of polydim	ethylsiloxane
0.0330.01D -	Dissticheskive mass	y, no. 9, 1965, 35-37	1144	N.
TOPIC T	AGS: polydimethylsil	oxane, silicone lubricar		
ABSTRAC lead, a siloxan studied N,N'-bi stabili	T: The effect of cer and iron with various he polymer PMS-100 to i increased the stabil is(2-hydroxy-1-naphthy ity by a factor of 9. considerable extent on fect of metal is dispinately.	tain complex compounds of Schiff bases on the statement oxidation was in the statement of polydimethylsilo (lidene)-1,2-diaminoethathe effectiveness of the nature of the metal layed most clearly in the forms a very effective section.	nvestigated. Al- xane, the most el ne, which increa he complex compo and choice of t	ffective being sed the unds depends he addend.

	L 2271-66 ACCESSION NR: AP5022227	
and any production of the state	copper only; the effect of the addend is most pronounced in the case of containing nickel. It is concluded that the use of chelates as high-tantioxidants for silicone oils, deserves further investigations. Orig. 2 tables.	
	ASSOCIATION: none	
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L 13200-66 EWT(m)/EWP(j)/T DJ/RM SOURCE CODE: UR/0065/66/000/001/0052/0054 ACC NR. AP6003434 (A) SOURCE CODE: UR/0065/66/000/001/0052/0054	
ACC NR. AP6003434 (77) AUTHOR: Kobzova, R. I.; Tubyanskaya, G. S.; Oparina, Ye. M.; Levkina, N. K. C ORG: \NII NP	
TITLE: Stabilization of polyethylsiloxane fluids by additives	
TOPIC TAGS: silicone lubricant, thermal control stability, distributions, and the stability is a stability of the stability o	
lubricant 6 (TUYeU-118-55), has been studied for the purify the criterion of thermal lubricant 6 (TUYeU-118-55), has been studied for the publicant. The criterion of thermal life and increasing service temperature of the lubricant additives was gelation oxidative stability of lubricant specimens with or without additives was gelation oxidative stability of the lubricant time at 200 and 250C. The best results were attained with dilauryl selenide; at time at 200 and 250C. The best results were attained with dilauryl of the lubricant 250C addition of 5% of this compound increases the thermal stability of the lubricant by a factor of 25. The effectiveness of the additives tested improves with increasing by a factor of 25. The effectiveness of the additives tested improves with increasing temperature. In other tests it conceptration (5% max) and drops with increasing temperature.	
fluid such as cyclopentadiurylcarbonylmanganese, selenophene	i
Cord 1/2 UDC: 665.521.5:547'28	

ACC NR: A			nt 6. I	our-ball a	paratu	s tests show	red that a	additives	which
	e the	rmal-oxidat formance in	ive state friction	on units.	rig. a	rt. has: 3	tables.	litions a	BO]
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1 , 1	4718-66 EWT(m)/T DJ
	C NR. AP6004284 (A) SOURCE CODE: UR/0117/66/000/001/0030/0031
\\ \	THORS: Opering, Ye. M. (Candidate of technical sciences); Sentyurikhina, L. N.54 Candidate of chemical sciences); Markov, V. A.; Rubtsova, Z. S.
O	A STATE OF THE CONTRACT OF THE
	ITIE: Dry lubricants with molybdenum disulfide, and the lowering of instrument
s	OURCE: Mashinostroitel', no. 1, 1966, 30-31
	OPIC TAGS: lubricant, lubricant additive, lubricant component, high temperature ubricant, molybdemum disulfide / NP-229 lubricant
	BSTRACT: This is a comment on a paper previously published by M. S. Beletskiy, Ts. Raykhenshteyn, and O. K. Shatalova (Mashinostroitel' No. 7, 1965), in which hose authors disputed the claim of Ya. K. Terent'yev that the solid lubricant hose authors disputed the claim of Ya. K. Terent'yev that the solid lubricant developed by him and containing MoS ₂) had any wear-resistant properties. The pres-
1	cossible to create a thin protective layer on the Surface of Custing Scientific tion is drawn to several such lubricants developed by the All-Union Scientific Scientific (Vassovuzmy nauchno-
	Research Institute for Reprocessing of Petroleum (in particular, lubricant VNII Issledovatel skiy institut po pererabotke nefti) (in particular, lubricant VNII
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L 20613-66 ENT(m)/T DJ ACC NR: AP6010830

SOURCE CODE

SOURCE CODE: UR/0065/66/000/004/0047/0048

AUTHOR: Kobzova, R. I.; Tubyanskaya, G. S.; Oparina, Va. M.; Zaytsev, V. A.;

Yegorova, A. A.

ORG: VNIINP

TITLE: TaTM: \ a new effective stabilizer for silicone lubricants

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 4, 1966, 47-48

TOPIC TAGS: lubricant, lubricant additive, silicone lubricant, antioxidant additive

ABSTRACT: A study has been made of the antioxidant effectiveness of cyclopentadienyltricarbonylmanganese (designated TsTM in the source) in silicone lubricants.

TsTM was found to surpass existing silicone antioxidants in stabilizing effectiveness and solubility. It is noted that prolonged service of silicone lubricants at
150-200C and above is normally rendered impossible by oxidation and polymerization
and that existing antioxidant additives are insufficiently effective. The silicone
lubricant used in this study was PMS-100 polydimethylsiloxane fluid (MRTU-6 No.
YeU-230-61 specifications). The criterion of antioxidation effectiveness was the
gelation time at 250-350C. TsTM was found to be a highly effective stabilizer of
the PMS-100 fluid. At 250C the curve TsTM concentration versus effectiveness went
through a maximum at 0.5%; at this maximum the gelation time was increased by a
factor of 250. The optimum TsTM concentration was dependent on temperature. TsTM

Card 1/2

UDC: 665.521.5:547'28

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L 38217-66 EWT(m)/EWP(j)/T ACC NR: AP6025463	DJ/RM SOURCE CODE: UR/0080/66/039/007/1638/1641
ur'yev, Yu. K.	a, Ye. M.; Levkina, D. K.; Magdesiyeva, N. N.;
miversitet); VNII NP	m. M. V. Lomonosov (Moskcvskiy gosudarstvennyy
for silicone fluids	ines of the selenophene series: oxidation inhibitors
SOURCE: Zhurnal prikladnoy khi	ive, silicone lubricant, selenophene, selenium compound
be effective thermatoxidation oils∥and as dispersion media fo	diketone and azomethine derivatives of selenophene to inhibitors for silicone fluids used as lubricating or lubricating greases. Selenophene derivatives were of taining a selenium atom in a ring are more thermally entionidant dilauryl selenide. Nine compounds were
interest because compounds constable than the conventional artested for antioxidant effective fluids at 300C. For polymethy	ntioxidant dilauryl selenide. Nine compounds were netioxidant dilauryl selenide. Nine compounds were veness (criterion, gelation time) in various silicone (chlorophenyl)siloxane (PMKhFS), the most effective (chlorophenyl)siloxane (PMS-100) and
antioxidant was (2-selenophenecarb polymethylphenylsiloxane (FM-1	322/300), the most effective were N-salicylidene-
Card 1/2	UDC: 546.3-19:66,022.37

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2-seloncen	trat	ion o	f the	ine and antiox	dipicoling didants (0.	oylbis(2-ac 5 to 5 % , th	etylse eir ef	lenophene) fectivenes	. Wit s incr	h incre eased.	asing Orig. [SM]	
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RM/ww/DJ IJP(c) EWP(f)/EWT(m)/T SOURCE CODE: UR/0191/66/000/008/0031/0032 ACC NR: AP6027279 (A)AUTHOR: Kobzova, R. I.; Oparina, Ye. M.; Levkina, N. K. ORG: none TITLE: Stabilization of polysiloxanes by cerium complexes SOURCE: Plasticheskiye massy, no. 8, 1966, 31-32 TOPIC TAGS: rilicone, antioxidant additive, cerium compound, Polysizerine, OXIDATION INHIBITOR, THERMAL STABILITY ABSTRACT: A new, highly effective cerium-complex thermal-oxidation inhibitor has been developed for polysiloxanes. The inhibitor increased the thermal stability (criterion, gelation time) of PMS-100 polydimethylsiloxane fluid by a factor of 250 at 250C and of almost 200 at 300C. The additive was soluble in the polysiloxane and did not precipitate on cooling to minus 60C. The inhibitor was a mixture of cerium p-toluate and N,N'-disalicylidene-1,2-propanediamine (forming a complex) taken in 1/18 molar ratio. It was used in doses equivalent to 0.025, 0.05, and 0.075% Ce in the silicone fluid. To ensure solubility, the silicone fluid was added to a toluene solution of the inhibitor after which the toluene was stripped off to 275C with sparging of air. It is suggested that under these conditions the inhibitor molecule becomes part of the silicone backbone just as was the case with previously studied [SM] titanium chelates. Orig. art. has: 3 tables. UDC: 678.84: 678.48.9:546 SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF Card 1/1/N/

L 27032-66 EMP(a)/EMP(J)/T WW/DJ/GS/RM/WH UR/0000/65/000/000/0134/0138
ACCESSION NR: AT5020438

AUTHORS: Oparina, Ye. M.; Sentyurikhina, L. N.; Dmitriyeva, V. O.; Pisarevskaya, Yo. E.; Petrova, L. N.

TITLE: High temperature lubricants based on dyes

SOURCE: AN SCSR. Nauchnyy movet po treniyu i mmnzkam. Teoriya mmnzechnogo doyatviya i novyye materialy (Theory of lubricating action and new materials). Moscow, Izd-vo Nauka, 1965, 134-138

TOPIC TAOS: lubricant, dye based lubricant, lubricant additive/ TsIATIM 221s lubricant, PFMS & silicone fluid, ETs 3 contrifuge, FM1322/300 silicone fluid

ABSTRACT: Lubricants based on dyes which are stable up to 3500 were investigated.

Polymothylphonyl-silexane liquids with different methyl and phenyl group ratios

(E.M. Oparina i dr. Khimiya i tekhnologiya tepliv i masel, 1961, No. 1) were used as the dispersion media. It was found from the volumetric mechanical properties that vat dyes blue "K," indigo, diexyviolanthrone, and dimetexyciolanthrone have that vat dyes blue "K," indigo, diexyviolanthrone, and dimetexyciolanthrone blue "K," weak thickening properties while the other dyes (pigment "SA)" vat dyes blue "K," weak thickening properties while the other dyes (pigment "SA)" vat dyes blue "K," weak thickening properties while the other dyes (pigment in mechanical properties "O," and isoviolanthrone) form lubricants which are similar in mechanical properties and colloidal stability to silicone lubricants (TsIATIM-221s, for example). To

L 21032-66 ACCESSION NR: AT5020430

determine storage stability and high temperature stability, the lubricants were tosted by the KSA method (350 gm load) and on heated contribuge ETo-3 (at 1500 for 5 hours) respectively. It was found that with PFRS-4 fluid the colloidal stability of good thickening dyon was botter than that of less effective thickeners and comparable to TBIATIN-2218. Percent weight loss of lubricant based on different fluids (using pigment SA) was found to ba 3.0, 4.2, 6.3 and 11.0% at 2500 and 0, 17.1, 18.0 and 29.1% at 3000 for PFH3-h copolymor 2/300 copolymor 3, and FM1322/300 fluids respectively. It was also found that the plastic perperties, 1.6., offective videosity and strength of isoviolanthrone-based lubricants (after heat stabilization), were practically unchanged after 1000 hrs at 1500. Indanthrene and isoviolanthrone silicone lubricants were tosted in ball bearings at high speeds (Dn = 300 000 mm rov/min) at 1500 and 15000 kg/cm² and were found inferior to TSIATIM-221 lubricants. At lower speeds (to 10000 mm rov/min) and low loads the above lubricants operated longer than 1500 hours at 2006. Dyes can be used as thickmors in conjunction with graphito and molybdonum disulfide, "giving up to 2500 hrs of service at 2000, 100 rpm, and 20000-25000 kg/cm² (lubricant NK-50/fails after 8-10 hrs under these conditions). At lesser speeds and loads service of 3000 hrs at 3500 can be obtained. Orig. art. has: 4 tables. ASSOCIATION: Nauchnyy sovet po treniyu i eneskem, AN SSSR (Scientific Committee on Friction and Lubrication, AN SSSR)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001238

ACC NRI AP6035579

SOURCE CODE: UR/0065/66/000/011/0050/0051

AUTHORS: Kobzova, R. I.; Oparina, Ye. M.; Tubyanskaya, G. S.; Sentyurikhina, L. N.

ORG: VNII NP

TITLE: Molybdenum disulfide and graphite-fillers for polyorganosiloxanes

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 11, 1966, 50-51

TOPIC TAGS: molybdenum disulfide, organosilicon compound, polymethylsiloxane, polymethylphenylsiloxane, graphite / PES-100 polymethylsiloxane, FM-1322-300 polymethylphenylsiloxane, PFNS-4 polymethylphenylsiloxane

ABSTRACT: The effects of adding 1 to 20% of molybdonum disulfide upon the thermooxidative stability of organosilicon liquids were investigated. The organosilicon
compounds selected for the study were polymethylsiloxane PMS-100, polymethylphenylsiloxane with a small content of phenyl substituent FM-1322/300, and polymethylphenylsiloxane with a high content of phenyl groups PMS-A. The proporties of these
phenylsiloxane with a high content of phenyl groups PMS-A. The proporties of these
materials have been described earlier by Yo. M. Oparina, G. S. Tubyanskaya, and R. L.
Kobzova (Khim. i tekhnol. topliv i misel, No. 1, 1904). The gelatinization or satisfication rate upon heating in open beakers and the loss of weight prior to gelatiniification rate upon heating in open beakers and the loss of weight prior to gelatinization served as indicators of thermooxidative stability. Heating was conducted at
150, 200, and 2500. At concentrations up to 1% the additives enhanced the thermal

Card 1/2

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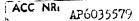
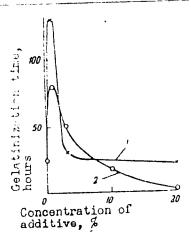


Fig. 1. Effect of the molybdenum disulfide and graphite concentrations upon the thermooxidative stability of PMS-100 at 2500: 1 - graphite; 2 - MoS₂



stability of these compounds; above that concentration, they rapidly accelerated the oxidation and depolymerization (see Fig. 1). Orig. art. has: 2 tables and 1 figure.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 001

Card 2/2

Source code: ur/0065/67/000/004/0023/0026 AP7602727 ACC NRI

AUTHOR: Sentyurikhina, L. N.; Tropkina, G. N.; Oparina, Ye. M.; Yevtyukuna, R. M.;

Vladimirova, S. L.

ORG: VNII NP

TITLE: Pastes and suspensions of molybdenum disulfide in various dispersion media

SOURCE: Knimiya i tekhnologiya topliv i masel, no. 1, 1967, 23-26

TOPIC TAGS: lubricant, solid lubricant, lubricant filler additive, silicone lubri-

cant, molybdenum disulfide, grease

ABSTRACT: Pastes and suspensions of MoS2 in oils or synthetic dispersion media (e.g., silicones) are manufactured in various concentrations: pastes which usually contain over 50% MoS₂ and suspensions; highly concentrated (50-20%); medium concentrated (20 $\frac{2}{1}$) and low concentration suspensions with MoS2 content below 1%. The study reported was mainly devoted to the investigation of the lubricating properties of high and medium concentration suspensions and pastes, as little attention has been given to their study in spite of their wide-spread use. Rheological properties (the so-called strength limit), colloidal stability, antiwear effect, coefficient of friction and the longevity of films were determined. It was found that pastes and suspensions, which can be prepared with ${\rm MoS}_2$ and a surfactant in a nonstructured or structured modification (the

UDC: 621.893

ACC NR: AP7002727

latter having a three-dimensional solid phase network structure), do not differ significantly in their coefficients of friction and longevity of films. (Structuring is achieved by introducing a surfactant, i.e., a soap, usually lithium stearate on heating, when soaps swell in the ambient oil and produce the three-dimensional network). The high strength .limit, especially in structured suspensions, is detrimental for the antiwear effect because of a decrease in the mobility of the lubricant. The colloidal stability determined by centrifuging increases with the concentration of MoS2 and the viscosity of the system. The structural activity of soaps is stronger in low concentration suspensions than in highly concentrated ones. The addition of MoS2 increases the antiwear effect of lubricating oils, e.g., the introduction of this solid lubricant into TsIATIM-221 grease increases the longevity of its films by 10-12 times under a 8600 kg/cm2 load. Structured systems with a low content of MoS2, such as VNII NP-242, VNII NP-220 and nonstructured high MoS2-content pastes VNII NP-225 and VNII NP-232 are widely used at the present time. Lubricants with low MoS2 content are usually applied in rolling friction foints; lubricants with high MoS2 content are used in gliding friction and in threaded joints. Orig. art. has: 3 tables and

4 figures. SUBM DATE: none/ ORIG REF: 009/ OTH REF: 003/ ATD PRESS: 5111

Card - 2/2

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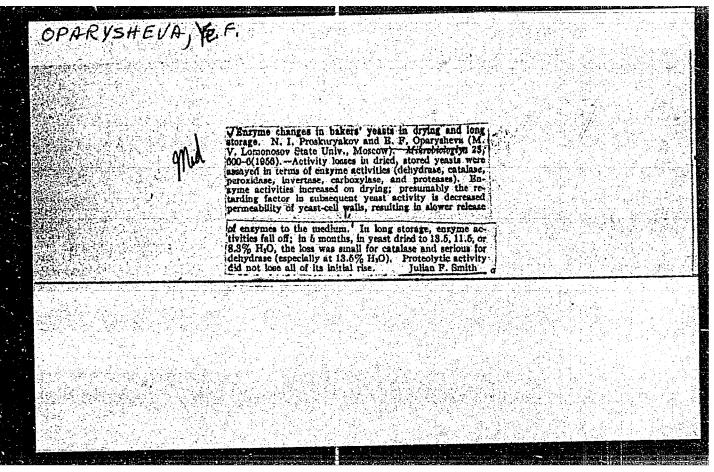
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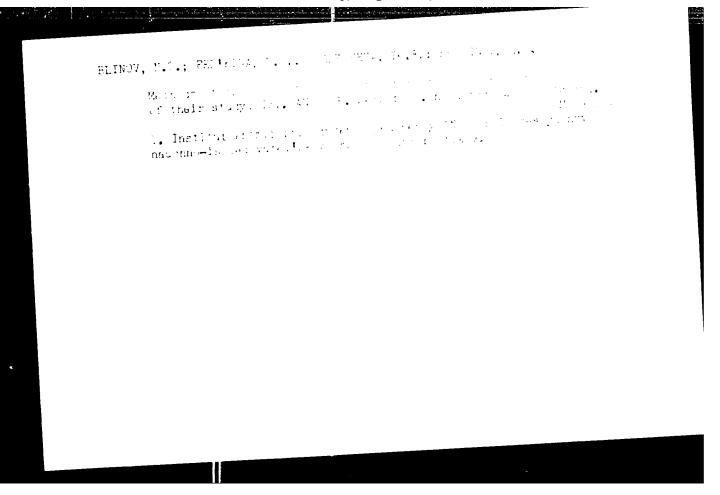
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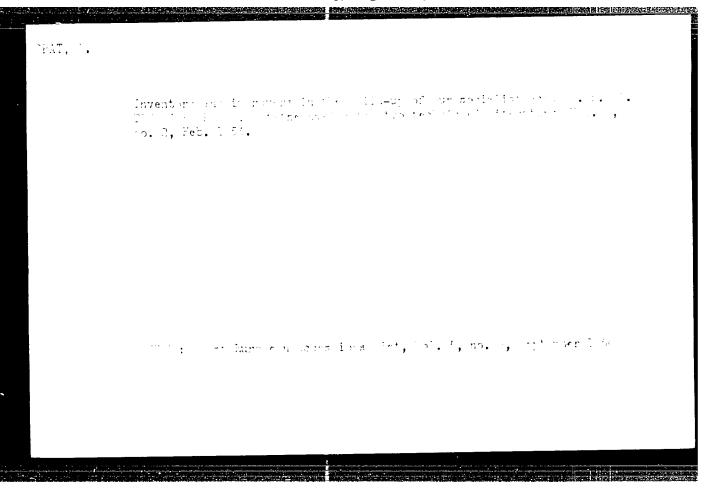
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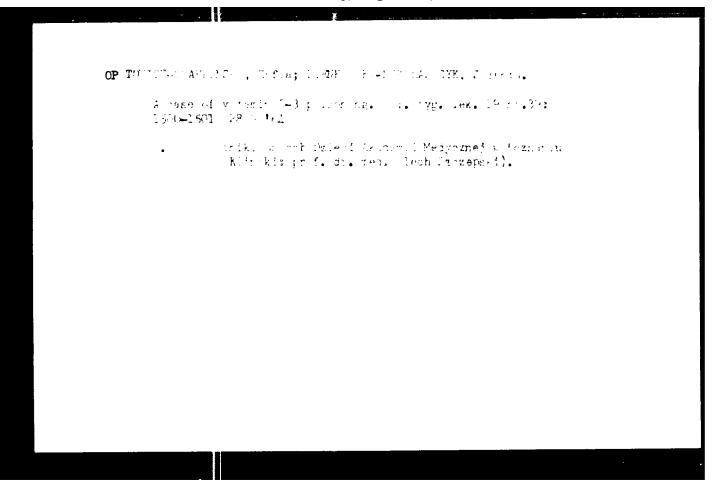
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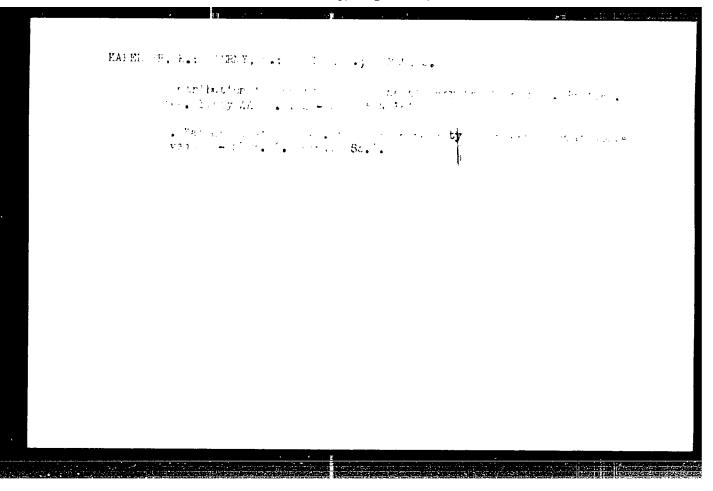
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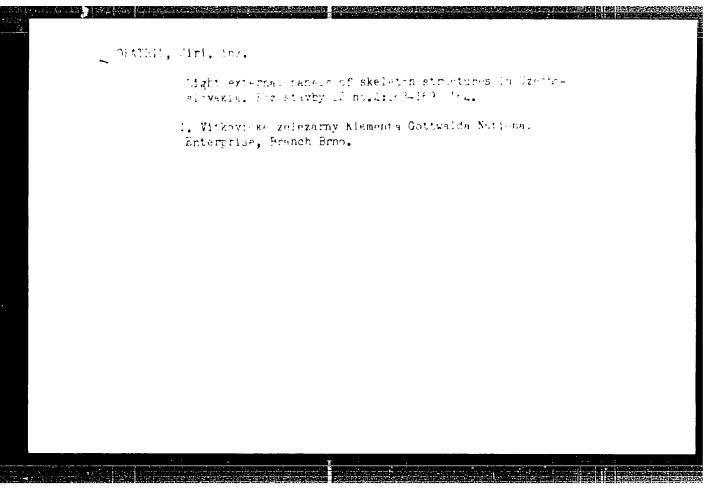
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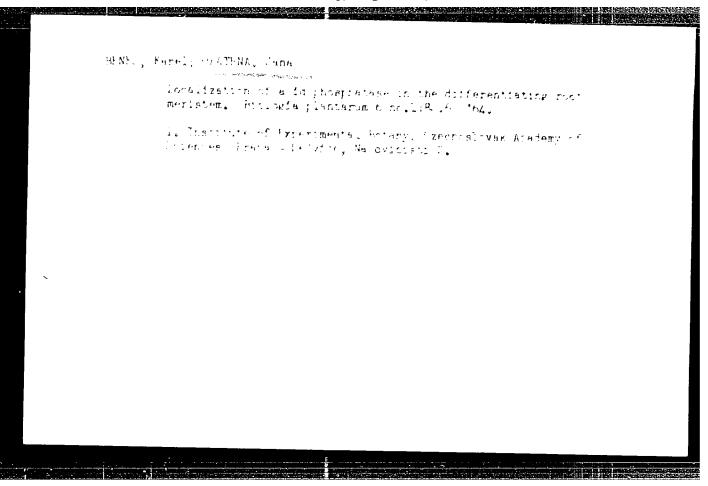
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(WOUNDS AND INJURIES, experimental, healing, determ., imprint method)

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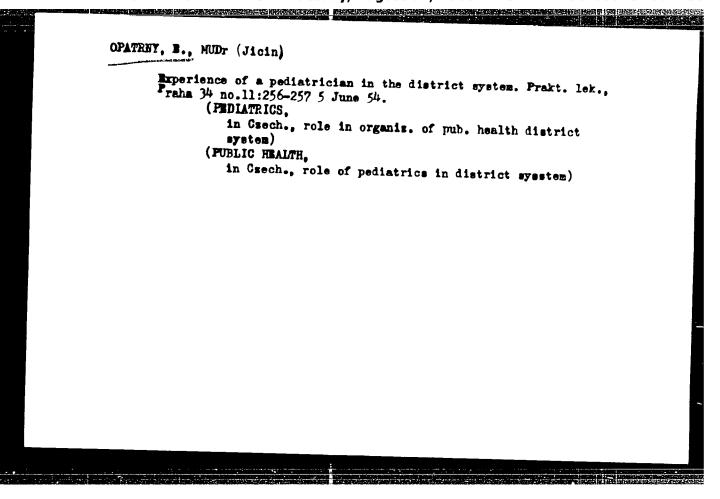
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Pil'zene.

(ALDOSTERONE,
aldosteronism, primary, diag. & surg. (Rus))
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CANDOVA, Jirina

BOBEK - continued CZECHOSLOVAKIA

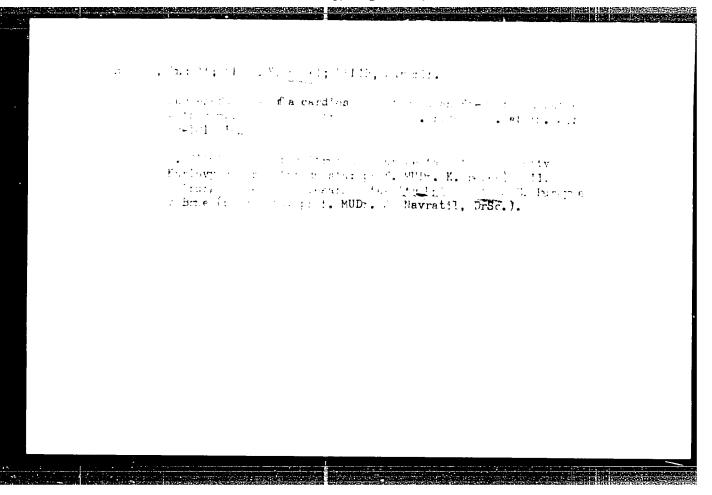
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CHUGUNOV, B.I., kand.ekon.nauk; SHOKIN, N.A., kand.ekon.nauk;
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kand.ekon.nauk; KORNETEV, A.M., doktor ekon.nauk; GPATSKIY, L.V.,
doktor ekon.nauk; VASIL'YEV, N.V., doktor ekon.nauk; RUDENKO, N.A.,
kand.ekon.nauk; BYSTROZOROV, A.S., kand.geogr.nauk; POPOVA, Ye.I.,
kand.ekon.nauk; KRUTIKOV, I.P., kand.geogr.nauk; BAKOVETSKAYA, V.S.,
red.izd-va; SHEVCHENKO, G.N., tekhn.red.

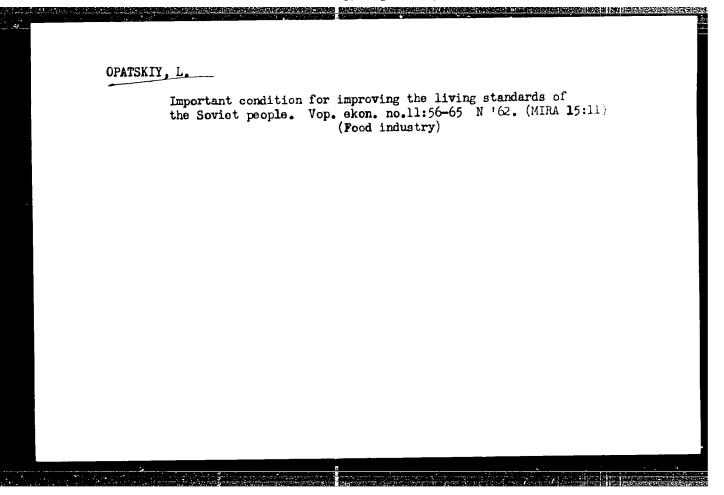
[Special features and factors in the distribution of branches of the national economy of the U.S.S.R.] Osobennosti i faktory rezmeshcheniia otraslei narodnogo khoziaistva SSSR. Moskva, 1960. (MIRA 14:3)

1. Akademiya nauk SSSR. Institut ekonomiki. (Economic zoning)

OFATSKIY, L.V., red.; GUSEYNOV, G.T., akad., red.; NADIROV, A.A., kand. geogr.nauk, red.

[Materials of the scientific session of the Academy of Sciences of the Azerbaijan 5.S.R. dedicated to the future development and distribution of the food industry] Materialy nauchnoi sessii, posviashchennoi perspektivnomu razvitiiu i razmeshcheniiu pishchevoi promyshl nnosti (28-30 noiabria 1961 g.)

1. Akademiya nauk Azerbaidzhanskoy SSR, Baku. Institut ekonomiki. 2. Sekretar' otdeleniya obshchestvennykh nauk AN Azerb.SSR (for Guseynov). 3. Zaveduyushchiy otdelom Razmeshcheniya sotsialisticheskogo proizvodstva Instituta ekonomiki AN Azerb.SR (for Nadirov).



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MISS, Istvan; OPAUSZKY, Istvan; MATUS, Lajos; TORKO, Janos
On the separation of boron isotopes. Moz fiz kozl MTA 7 no.6:391-398
'59.

1. Magkemiai Laboratorium I., Kozponti Fizikai Kutato Intezet,
Magyar Tudomanyos Akademia.
(Boron) (Isotopes)

s/089/6**1**/010/001,001,002 8006/8063 21,3000 Kishsh, I., Opauski, I., Matush, L. Data on the Separation of Boron Isotopea in the Formati 11.2221 AUTHORS: Velatile Compounds Atomnaya energiya, 1960, Vol. 10, No. 1, PF. 77-75 TITLE: TEXT: Besides many other possibilities of separating stations for isotopes there is a method that takes advantage of the fact that wish PERIODICAL: compounds containing heavy isotopes are more volatile than similar compounds containing light isotopes. There is no universal theory available for this phenomenon. Such a theory still requires a great amount experimental material. This "Letter to the Editor" presents a comparing of the practical effectiveness of various oxygen-containing result of compounds which are used for isctope enrichment, and design difference in character and degree of volatility of bor in the pounds. The following systems have teen studied: anisole - Fr. . the ather - BF_3 , acetic acid - BF_7 , -thyl acetate - bF_7 , and trialnyl terminal Cari 1/4

Data on the Separation of Boron Isotopes S/089/60/010/001/010/001/010/000/000/

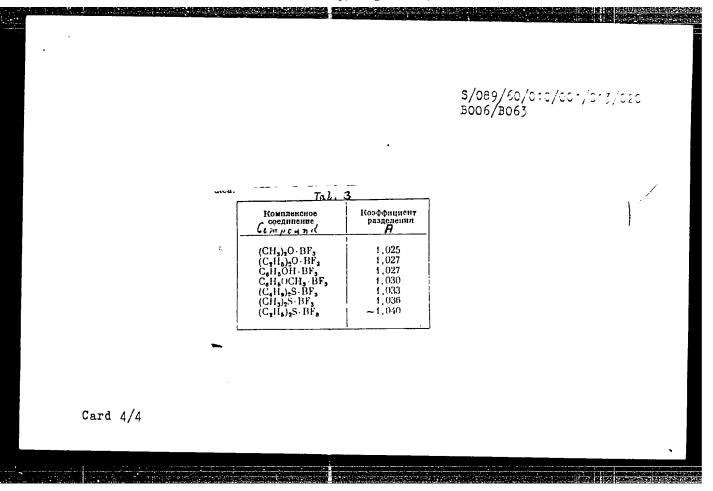
The experiments were partly made at 20°C by the counterflow method (liquid complex - BF,-gas) and partly by a method described in Ref. 4.

The isotopic composition of the fraction obtained was determined by the method of neutron absorption. Experimental equipment and technique are described in Ref. 6. Results are given in Table 1. Enrichment was determined from the formula:

 $A = (B^{11}/B^{10})_{in \text{ the column head}}/(B^{11}/B^{10})_{in \text{ the column vat}}$ Table 2:

Table 1:	^		and	Pressure,	t°C	A
Compound	t ^o c	A 2.0	Compound B(OCH ₃) ₃	mm ₄ Hg	56	1.0725
c ₆ H ₅ ocH ₃ .BF ₃	20		$B(OC_2H_5)_3$	740	56	1.0420
(c_2H_5) 0.BF ₃	60	2.4	- /.*	20	128	:.0170
2H ₂ O.BF ₃	80	1.9	$B(OC_4H_9)_3$	20		
CH3OH·BF	92	1.7				
CH_COOH·BF,	96	1 9				

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	Research on the separation of boron isotopes. Rocz chemii 34 no.2: 385-389 60.
	l. TSentral'nyy nauchno-issledovatel'skiy institut fiziki Vengerskoy Akademii naui, Budapest. (Boron) (Isotope separation)

KISS, I., MATUS, L., and OPAUSKY, I.

"On the relation between isotope effects in vapor pressure and molecular structure."

CHEMISTRY (PHYSICAL), SOCIETY OF (French) - 12th Annual Meeting - Paris, France, 4-8 Jun 62

Central Institute of Physics Research, Budapest

OPAUSZKY, I.; ZMBOV, K.F.

The use of graphite—coated tungsten filaments for isotopic analysis of uranium by a mass spectrometer. Bul Inst Nucl 14 no.1:17-20 Ja 163.

1. Department of Physical Chemistry of the Boris Kidric Institute of Nuclear Sciences. 2. Permanent address: Central Research Institute of Physics, Budapest, Hungary (for Opauszky).

ACC NR: AP0022017

SOURCE CODE: UR/0120/66/000/003/0158/0160

AUTHOR: Matunn, L.; Opauski, I.; Kinh, I.

ORG: Central Institute of Physics Studies, Budapest (Tsentral'nyy institut fizicheskikh issledovaniy)

TITLE: Improvement of the MI-1305 mass spectrometer for the isotopic analysis of natural carbon and oxygen

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 158-160

TOPIC TAGS: mass spectrometer, mass spectroscopy

ABSTRACT: High-accuracy measurements of the C^{13}/C^{12} and O^{18}/O^{16} ratios are required both in studies of the origin of CO_2 and in determination of the paleotemperature. For this purpose the following improvements and modifications have been made on the MI-1305 mass-spectrometer: (1) a new gas release system was developed; (2) the ion receiver was redesigned so as to make spacings between slots, through which two ion beams to be compared are transmitted; (3) a sensitive recording unit was added for the compensating comparison of ion currents; and (4) a precise control of both the accelerating ion current and the magnet feed current was introduced. Several hundred measurements were conducted with the modified mass-spectrometer system to determine the C^{13}/C^{12} ratio. The comparative measurement accuracy was 0.02-0.03%. Grig. art. has: 2 figures.

SUB CODE: 07/18/SUBM DATE: 12Jun65/ ORIG REF: 001/ OTH REF: 004 Cord 1/1 UDC: 621.384.6