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VASIL'YEV, Mikhail Vasil'yevich; KARGIN, V.A., akademik, nauchn.
red.; GOLUBKOVA, V.A., red.

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dukha. Moskva, Sovetskaia Rossiia, 1964. 343 p.
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Problems of education in mining engineering. Ugol' 40 no.11:6-9 '65. (MIRA 18:11)

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VASIL'YEV, M.V.; FESENKO, S.L.

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1. Institut gornogo dela, Sverdlovsk.

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Azimov). Rekomendovana kafedroy razrabotki mestorozhdeniy poleznykh
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kand. tekhn. nauk; LATS, V.M.; PAFENOV, G.V.; POPOV,
V.Ye.; TROITSKIY, D.P.; FADDEYEV, B.V.; TSVETAYEVA, Z.N.;
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[Evaluation and the prospects of the development of the
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Otsenka i perspektivy razvitiia syr'evoi bazy chernoi metal-
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VASIL'YEV, M.V.

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Trudy Inst.gor.dela UFAN SSSR no.4:3-19 '62.

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Safe driving of dump trucks on steep descents in open pits.
Bezop.truda v prom. 7 no.4:7-8 Ap '63. (MIRA 16:4)

1. Institut gornogo dela, Sverdlovsk.
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S.A., prof., doktor tekhn. nauk; KUR'YAN, A.I., kand. tekhn.
nauk; MAYMIN, S.R., kand. tekhn. nauk; MIROSHNIK, A.M., kand.
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Determining the practical width of strip mine roads. Trudy Gor.-
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1. Gornyy otdel Ural'skogo filiala AN SSSR.
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(Strip mining)

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Vasil'yevich, kand. tekhn. nauk; KHOKERYAN, Vladimir Stepanovich,
kand. tekhn. nauk; Prinizial uchastiye NOSTYEV, B.A.; NURMICHAEV, V.F.,
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[Incline hoists in open-cut mining]Naklonnye pod"emniki na kar'e-
rakh. Moskva, Gosgortekhnizdat, 1962. 150 p. (MIRA 15:12)
(Hoisting machinery)

VASIL'YEV, Mikhail Vasil'yevich; GUSHCHEV, Sergoy

[Your mysteries, nature!] Tvoi tainy, priroda! Moskva,
Sovetskaia Rossiia, 1960. 166 p. (MIRA 15:8)
(Science)

VASIL'YEV, M.V., kand.tekhn.nauk

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truck. Gor.zhur. no.2:38-42 F '61. (MIRA 14:4)

1. Ural'skiy filial AN SSSR.
(Mine haulage) (Dump trucks)

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PARFENOV, G.V., kand.tekhn.nauk

Review of the book by A.O.Spivakovskii, M.G.Potapov and A.V.Andreev
"Transportation in open pit mines." G-or.zhur. no.4:79-80 Ap
'64. (MIRA 17:4)

VASIL'YEV, M. V.

Doc Tech Sci - (diss) "Basic problems of the development of open workings with the use of motor vehicle transport." Moscow, 1961. 37 pp with illustrations; (Academy of Sciences USSR, Inst of Mining Affairs imeni A. A. Skochinskiy); 250 copies; price not given; list of author's works on pp 35-37; (KL, 7-61 sup, 229)

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tekhnicheskii redaktor

[Machines in the service of man] Mashiny na sluzhbu cheloveku.

[Moskva] Izd-vo VTsSPS Profizdat, 1954. 143 p. [Microfilm]

(Machinery)

(MLR 10:4)

PHASE I BOOK EXPLOITATION SOV/5494

Vasil'yev, Mikhail Vasil'yevich, and Sergey Zakharovich Gushchev

Reportazh iz XXI veka; my zapisali rasskazy dvadtsati devyati sovetskikh uchenykh o nauke i tekhnike budushchego (Reports From the Twenty-First Century; Stories of Twenty-Nine Soviet Scientists on Science and Engineering of the Future) [Moscow] Izd-vo Sovetskaya Rossiya, 1958. 243 p. 50,000 copies printed.

Ed.: V. A. Golubkova; Tech. Ed.: G. I. Kleyeva.

PURPOSE : This book is intended for the general reader.

COVERAGE: The book contains 27 articles (told reporters by Soviet scientists) dealing with probable future progress in physics, chemistry, electricity, metallurgy, engineering, mining, medicine, biology, agriculture, zoology, transportation, exploration of space, and photography. Attention is given to automation, automatic underground gasification of coal, use of new metals, modernization of oil fields, atomic electric stations, production of metal parts by the process of explosion, explosions
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Reports From the Twenty-First (Cont.)

SOV/5494

in dam construction, cancer, internal longevity reserves, machine diagnoses of illnesses, surgery vs. treatment by ultrasonic vibrations, mechanical heart substitutes, human body banks, "medical engineering," enriched fodder, "superfertilizers", artificial snowfalls, agriculture vs. "mariculture", radiochemistry, power beam vs. wire, machines doing intellectual work, "HF automobiles" (with "radio motors"), "artificial sun" (electromagnetic rays focused above a city which cause heated molecules to shine), future ocean ships, "railway dreadnoughts", Moscow of the future, moving pavements, wheelless and driverless automobiles, electric cameras, the industrialization of Siberia, use of underground heat, climate control, living on the moon, antimatter, and photon jet. Names of the interviewed scientists are given. There are no references.

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INTRODUCTION

Mission Into the Future
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tekhn.red.

[Machines present and future] O mashinakh, kotorye est' i koto-
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(MIRA 13:4)

(Mechanical engineering)

VASIL'YEV, M.V.; GLAGOLEV, A.V.; LISOVSKIY, M.A.; PLINK, L.I.; RIRASEVICH, G.V.

Application of aerial methods to railroad surveying. Geog.sbor/
no.7:31-52 '55. (MIRA 9:1)
(Railroads--Surveying) (Aerial photogrammetry)

DEMIN, A.M., kand. tekhn. nauk; CHERTKOV, V.K.; VASIL'YEV, M.V.,
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S.A., prof., doktor tekhn. nauk; KUR'YAN, A.I., kand. tekhn.
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kand. tekhn.nauk; SHISHKOV, A.I., kand. tekhn. nauk;
AVERBUKH, I.D., inzh.; VARSHAVSKIY, A.V.; KRYUKOV, D.K.; LUKAS,
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[Handbook for the operator and mechanic of open-pit mine equip-
ment] Spravochnik mekhanika ugol'nogo kar'era. Moskva, Gos.
nauchno-tekhn.izd-vo lit-ry po gornomi delu, 1961. 639 p.
(MIRA 15:3)

(Strip mining--Equipment and supplies)
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VASIL'EV, M.V., mining engineer

Open pit dumping and routing operations Sverdlovsk, Gos. nauchno-tekhn. izd-vo
po chernoi i tsvetnoi metallurgii, 1944.
51. p. (51-46072)

TN291. V32

1. Mining engineering

PA 18T65

VASIL'YEV, M. V.

USSR/Mines and Mining - Equipment
Mineral Industries

Jul 1947

"Motorized Transport at Open Pits in the USA and the
Development of Its Use in Russian Open-pit Mines,"
M. V. Vasil'yev, Mining Engineer, Lower-Tagil'
Industrial Institute, 5 pp

"Gornyy Zhurnal" Vol CXXI, No 7

Compares US equipment to Russian equipment. Mentions
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18T65

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USSR/Engineering
Stone Quarries

Aug 48

"Mechanical Methods for Obtaining and Processing
Marble at TagilStroy," M. V. Vasil'yev, Engr,
TagilStroy Trust, 1 3/4 pp

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Lower Tagil region is only USSR source of bright red
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VASIL'EV, I. V., mining engineer.

Open pit transportation Sverdlovsk, Gos. nauch.-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1.49. 242 p. (50-22033)

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VASIL'YEV, M.

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Avtomobil', 1949, No. 6, s. 14-15

SC: LETOPIS ZHURNAL STATEY - Vol. 23, Moskva, 1949

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Self-propelled monitor for the washing of earth. Khlopkovostvo No. 6, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

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Excavating Machinery

Complete mechanization of earth work.
Mekh. Trud. rab. 6, No. 2, 1952.

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2. USSR (600)
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Excavation

Generalizing advanced labor techniques in excavating work. Gor. zhur. no. 8, 1952.

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Mechanization of brick clay mining in winter. Mekh. stroi, 9, no. 2, 1952.

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7. Cyclical method of excavating work. Stroi. prom. 30, No. 6, 1952.
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6-11 '53. (MLRA 6:5)

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Using tractor trailers in open pit mining and in earthwork. Mekh. trud. rab. 7,
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79:3-5 '54. (MIRA 8:4)
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Mechanization of earthwork in constructing mines and factories.
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Progressive practices in earth removal by dragline excavator operators.
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VASIL'YEV, M.V. kandidat tekhnicheskikh nauk

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(Dump trucks) (MLRA 8:8)

VASIL'YEV, M.V., kandidat tekhnicheskikh nauk; SAMOKHVALOV, V.P., inzhener.

Bulldozer with clamshell jaw. Mekh.trud.rab.10 no.3:29-30 Mr '56.
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VASIL'YEV, M.V., kandidat tekhnicheskikh nauk.

New methods of using dragline excavators in large-scale excavation.
Biul.stroi.tekh. 13 no.10:26-29 O '56. (MIRA 10:1)

1. Trest Uralsibekskavatsiya.

(Excavating machinery)

NIKOLAYEV, I. I.

NIKOLAYEV, I. I., kandidat tekhnicheskikh nauk, starshiy nauchnyy sotrudnik;
VASIL'YEV, M. V., kandidat tekhnicheskikh nauk, starshiy nauchnyy
sotrudnik; PANASSENKO, A. D., kandidat tekhnicheskikh nauk, nauchnyy
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1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii
i mekhanizatsii stroitel'stva. 2. Sredneaziatskiy nauchno-issledova-
tel'skiy institut irrigatsii (for Vasil'ev, Nikolayev)
(Earthwork)

VASIL'YEV, Mikhail Vladimirovich; MINGALEV, Yu.A., redaktor; MAMOT, A.I.,
redaktor; LOCHKO, Yu.V., redaktor izdatel'stva; ZEP, Ye.M.,
tekhnicheskii redaktor

[Automobile and tractor transportation in open-cut mining]
Avtomobil'nyi i traktorny transport na kar'erakh. Sverdlovsk,
Gos.nauchno-tekhn.izd-vo lit-ry po cherno i tsvetnoi metallurgii,
Sverdlovskoe otd-nie, 1957. 432 p. (MIRA 10:11)
(Mine haulage) (Motor trucks)

VASIL'YEV, M.V., kandidat tekhnicheskikh nauk.

Prospects for the development of automobile and tractor transportation
in strip mining. Gor. zhur. no.1:62-67 Ja '57. (MIRA 10:4)

1. Glavnyy inzhener tresta Uralsibekskavatsiya.
(Strip mining) (Mine haulage)

VASIL'YEV, M.V., kandidat tekhnicheskikh nauk.

~~Tasks in increasing the efficiency of automobile transportation in~~
open pit mines. Gor. zhur. no.5:27-31 My '57. (MLBA 10:6)

1. Trest Uralsibekskavatsiya.
(Mine haulage) (Transportation, Automotive)

VASIL'YEV, M.V., inzh.

Conveyer receptacle bunkers for coal pits. Mekh. trud. rab. 11 no.10:
24 0 '57. (MIRA 10:11)

(Coal mines and mining)

VASIL'YEV, M.V.

100-7-1/11

AUTHOR: Vasil'yev, M.V., Candidate of Technical SciencesTITLE: Excavation Conducted on Construction Sites in the Eastern
Regions of the Country (Opyt proizvodstva zeniyan'nykh
rabot na stroykakh vostochnykh rayonov strany)PERIODICAL: Mekhanizatsiya Stroitel'stva, 1957, Vol.14, No.7,
pp. 3 - 7 (USSR).

ABSTRACT: The Uralsibekskavatsiya Trust specialises in excavation work in the Urals and in Siberia, where special attention to climatic conditions is required. Table 1 shows figures for excavation work carried out between 1950 and 1956; Table 2 gives technical and economic data. Excavators used give increased volume of excavation work by the "rolling off" method, by breaking up the soil which is then transported by bulldozers. Lorry transport was found to be more economical than rail transport. Diesel-engine lorries MA3-205 with 1/2 m³ capacity excavators and lorries of mark ~~MA3~~-210E with single bucket excavators were most satisfactory. During the last 2 years, the mobile scrapers A-147 and A-222, as well as articulated trailers (A-179) have been used. The latter are most effective on distances of up to 1 1/2 km, the tractor-driven trailers on distances up to 0.8 km and the scrapers on distances of 0.4 - 0.5 km. 85% of the excavators are driven by diesel engines.

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100-7-1/11

Excavation Conducted on Construction Sites in the Eastern Regions of the Country

65% of the excavators are constructed as drag-line mechanism. During 1956, these were used for 67% of all the work carried out by the Trust. Of the excavated ground, 7% consisted of stone, 17.5% of frozen soil. Table 3 shows the daily output of the excavators as well as the time required for maintenance of the same during 1955 - 1956. The annual output of these excavators (Table 4), of single-bucket excavators (Table 5) and of various types of excavators (Table 6) is given. Advantages and disadvantages are discussed in detail. The output of Stakhanov Brigades of the Trust reached during 1951 to 1956 are shown in Table 7. Big-capacity buckets are more suitable for light soils. Special equipment has to be used for breaking up the frozen soil to a depth of 1.6 m (and deeper). The 76C-110 machines are most frequently used. If these were not sufficiently efficient, then wedges and mechanical hammers attached to the arm of the excavator were applied; this, however, caused a 50 - 60% drop in the output. The soil for winter excavations is prepared by various methods in the autumn: a) by heaping up of the ground (in the Siberian regions); b) by breaking up of the ground by the impact of the excavator buckets (in the Urals); c) by deep

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Excavation Conducted on Construction Sites in the Eastern Regions of
the Country " 100-7-1/11

cross ploughing in 2 directions (in the South Urals and the Kazakhstan). The cranes can be assembled and dismantled in 8 days. The annual output/excavator operator is given in Table 8. Two shifts work generally; 3 shifts only under exceptional conditions. There are 3 tables.

AVAILABLE: Library of Congress

Card 3/3 1. Earth moving equipment-Applications 2. Construction-USSR

... ..
VASIL'YEV, M.V., kand. tekhn. nauk.

Using excavators for working frozen ground. *Biul. stroi. tekhn.* 14
no.11:9-13 N '57. (MIRA 11:1)

1. Trest Uralsibekskavatsiya.
(Excavation machinery--Cold weather operations)

VASIL'YEV, M.V., kand.tekhn.nauk.

Moving earth by belt conveyers. Stroi.prom. 35 no.7:10-13 J1 '57.
(MIRA 10:10)
(Conveying machinery) (Earthmoving machinery)

NOV-197-58-9-1/20

AUTHOR: Vasil'yev, M.V., Candidate of Technical Sciences

TITLE: An Evaluation of Automobile and Railroad Transportation in Quarries (Otsenka av'omobil'nogo i zheleznodorozhnogo transporta na kar'yerakh)

PERIODICAL: Gornyy zhurnal, 1958, Nr 9, pp 26-32 (USSR)

ABSTRACT: The author made a comparative evaluation of automotive and railroad transportation in the largest quarries of the USSR. N.S. Dombrovskiy (Ref. 1) and L.G. Tymovskiy (Ref. 2) claimed that the efficiency of excavators is from 20 to 30 % higher when automotive transportation is used. The author proved that the excavator efficiency is 16 % higher when railroad transportation is used. Automotive transportation needs a well functioning administration and a great number of spare trucks to replace those undergoing repair. As to the comparable costs of these 2 ways of transportation, the author found that the costs as well as the efficiency of both methods of transportation are identical. However, as soon as larger and more powerful dumptrucks are available, and the organization of automotive transportation improves, this type of transportation will be best.

Card 1/2

87-117-98-0-1/70

An Evaluation of Automobile and Railroad Transportation in Quarries

There are 4 tables, 6 graphs and 4 Soviet references.

ASSOCIATION: Gorno-geologicheskii institut Ural'skogo filiala AN SSSR
(The Mining and Geological Institute of the Ural Branch of
the AS USSR)

1. Quarries--Equipment--Effectiveness
2. Trucks--Effectiveness
3. Railroads--Effectiveness

Card 2/2

SOV-118-58-10-15, 16

AUTHORS: ~~Vasil'yev, M.V.~~, Candidate of Technical Sciences and Kochetov,
M. T., Engineer

TITLE: New Techniques in the Transfer of Quarry Transportation
Equipment (Novoye v tekhnike peremeshcheniya transportnykh
kommunikatsiy na kar'yerakh)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh robot, 1958, Nr 10,
pp 44 - 46 (USSR)

ABSTRACT: The authors describe Le Tourneau bulldozers used in US and
West Germany for the last 10 years, for the moving tracks
and conveyor assemblies in quarries. There are 3 photos.
1 diagram and 1 table.

1. Bulldozers--Equipment 2. Quarries--Equipment

Card 1/1

AUTHOR: Vasil'yev, V. V., Cand. of Tech. Sciences SOV/127-58-12-12/26

TITLE: Rail Transportation in the Opencast Iron Ore Mines of the Urals (Rel'sovyy transport na zheleznorudnykh kar'yerakh Urala)

PERIODICAL: Gornyy zhurnal, 1958, Nr 12, pp 47 - 51 (USSR)

ABSTRACT: Though the volume of the iron ore extracted from opencast mines of the Ural region and transported by railway in 1956 was important, there are many possibilities of increasing the efficiency of railway transport, of reducing transportation costs. The author finds that the main cause of the insufficient mechanization of the railways is the shortage of equipment in almost every branch of railway service. Losses of time caused by the poor functioning or delayed repair of various parts of the railway system and its rolling stock reach up to 23.1% of the working time. The author proposes different plans to remedy this state of affairs.

Card 1/2

Rail Transportation in the Opencast Iron Ore Mines of the Urals SOV/127-58-12-12/26

There are 7 tables.

ASSOCIATION: Gorno-geologicheskii institut Ural'skogo filiala, AN SSSR
(The Mining and Geological Institute of the Urals Branch
of the AS USSR.)

Card 2/2

VASIL'YEV, M.V., kand. tekhn. nauk.; KOCHETOV, N.T., inzh.

Recent developments in methods of distributing transportation lines
at quarries. Mekh. trud, rab. 12 no.10:44-46 O '58. (MIRA 11:11)
(Quarries and quarrying)

VASIL'YEV, M.V.

Certain parameters of truck haulage in deep open-cut mines.
Trudy Gor.-geol. inst. UFAN SSSR no.31:197-210 '58.
(MIRA 12:9)

(Strip mining) (Mine haulage)

ВАСИЛ'ЯЕВ М.

VASIL'YEV, M., kand. tekhn. nauk.

Using automotive transport in mining. Avt. transp. 36 no.1:6-8 Ja
'58. (MIRA 11:1)

(Mine haulage) (Transportation, Automotive)

KHOKHRYAKOV, V.S., dots.; VASIL'YEV, M.V., kand.tekhn.nauk

Investigation of operational properties of MAZ-525 dump trucks in open-pit mines. Izv.vys.ucheb.zav.; gor.zhur. no.2:98-111 '59. (MIRA 13:4)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrushova (for Khokhryakov). 2. Gorno-geologicheskii institut Ural'skogo filiala AN SSSR (for Vasil'yev).
(Strip mining) (Dump trucks)

VASIL'YEV, M.V., kand.tekhn.nauk

Transportation by helicopters out of deep pits. Izv.vys.ucheb.
zav.; gor.zhur. no.3:99-104 '59. (MIRA 13:4)

1. Ural'skiy filial AN SSSR.
(Ore handling) (Helicopters)

6(6), 11(7)

SOV/118-59-9-14/20

AUTHORS: Vasilyev M.V., Candidate of Technical Sciences, and
Kochetkov N.T. and Subbotin A.N., Engineers

TITLE: Television in Open Pit Mines

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959,
Nr. 9, pp 56-60 (USSR)

ABSTRACT: The chief purpose of industrial television is a visual control over mining processes remote or inaccessible for a direct observation. It can convey to one or several control posts reliable information about the work carried out in one or several sections. With the aid of television, an operative control over all basic production processes, such as drilling, loading, transportation and unloading of mined mass, is realized. Industrial television installations applied in open pit mines consist of three basic components: transmitter, amplifier, and receiver with screen, all connected by a special cable (Fig. 1). Transmission of vision and sound signals can be performed either by cables or by wireless methods.

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SOV/118-59-9-14/20

Television in Open Pit Mines

In industrial television installations used in open pit mines, the co-axial cable system is applied, as it decreases the influence of different disturbances appearing as a result of work of electric installations and other machines in the mine. Depending on their construction, transmitting tubes of television installations differ by their sensitivity and have different periods of service. In the USSR, industrial television installations are provided with transmitting tubes "Vidikon" and "Superortikon". The amplifier is intended for strengthening incoming vision signals and increasing them to a size, permitting the reception of a normal image on the screen. The amplifier is connected between the transmitter and the screen. The size of the receiver screen depends on the size of the receiving tube, and averages to 17-18 cm. Depending on the purpose of the television installation, different connection layouts are used; sometimes, several transmitters are connected to one receiver; in other cases, one transmitter is connected with several receivers located at different points. One trans-

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SOV/118-59-9-14/20

Television in Open Pit Mines

mitter can simultaneously send the image to 4-5 screens. The Central Scientific-Research Institute of Television has worked out a number of designs intended for serial production. Among them is the installation with transmitting tubes "Vidikon" (PTU-0, PTU-1, PTU-2) and "Superortikon" (PTU-3). The installation PTU-3 is shown in Fig. 2. It ensures definition of the image up to 600 lines. A wide application of television is planned in the Bazhenovskiye quarries of the Trust "Soyuzasbest", and in the quarries of the Southern and Central Mining Administrations. It is intended to improve the installation PTU-3 or PTU-4 in such a way that it would permit reception from 12 transmitters; at the same time, it is planned to increase the distance between the transmitter and the amplifier to 800 m, and from the amplifier to the receiver - to 1000 m. A television installation for superintendence of unloading of ores at the Magnitogorsk Metallurgical Combine is at present used. Transmitter PTU-3 is placed on a special 4 m high tower, receiving devices are located in the dispatch room, 150 m away from the object of observation. There are 2 photographs.

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SOV/98-59-10-3/20

14(10,11), 30(1)

AUTHOR:

Vasil'yev, M.V. Candidate of Technical Sciences

TITLE:

New Earth Moving Equipment

PERIODICAL: *Gidrotekhnicheskoye stroitel'stvo*, 1959, Nr 10, pp 10-17 (USSR)

ABSTRACT: The article deals with the latest developments in the field of automotive construction and design and their application to hydraulic construction, mainly in the form of excavators, scrapers and bulldozers. Hitherto these were based on the 93 HP S-80 tractor, produced by the Chelyabinskiy zavod (Chelyabinsk Works), but since the engine of this machine is now too weak for the type of work required of it, new types have been evolved in the form of articulated vehicles composed of single-axled and twin-axled traction machines and a separate bulldozing unit, which is attached as needed. The MAZ-529 (Fig.1), to be produced this year, consists of a forward traction unit powered by a 165 HP YaAZ-210Ye 2-stroke engine, with a 5-speed gearbox; an output of 64 HP at 1,500 revs. per min. is sufficient for heavy work. It was tested in conjunc-

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New Earth Moving Equipment

tion with the D-357G hydraulic scraper (capacity 9-10 m³), produced by the Nikolayevskiy zavod (Nikolayevsk Works) of construction and road building machines, but it is intended that production of the rear-emptying MAZ-5238 semi-trailer (capacity 9 m³) will be given priority. The author proceeds to give a brief account of the MAZ-533 and MAZ-531 single-axled tractors, designed by the Minskiy avtozavod (Minsk Automobile Works) and scheduled for production by the Mogilevskiy zavod (Mogilev Works) in 1959-1960. The former has a 110 HP engine and is for use with scrapers of 4 m³ capacity; the latter develops 300 HP and is for use with 15 m³ scrapers. Fig.2 shows a D-932 scraper coupled with a MAZ-531 tractor, and the specifications of the 3 above mentioned vehicles are given in table 1. Brief mention is also made of the D-387 and SVN automotive scrapers manufactured by the Zavod imeni Kolyushchenko (Works imeni Kolyushchenko), and the advantages of these new designs over automatic dump trucks are enumerated: simplicity, maneuverability, road-holding and economy. The specifications of these machines are compared with those of the caterpillar type in

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New Earth Moving Equipment

table 2, and table 3 contains details of the comparative performance and economy of the various machines, showing that articulated machines become considerably more economical in use as the distance covered increases. Fig.3 and table 4 give details concerning the twin-axled MAZ-528 bulldozer, with a 165 HP diesel engine, another product of the Minsk Works, but while such machines are superior to caterpillar types, their production is not as yet large-scale in the USSR. The output of D-188A scrapers (Table 5) is limited by the shortage of DET-250 tractors, production of which by the Chelyabinsk traktornyy zavod (Chelyabinsk Tractor Works) is scheduled for 1959-60. The manufacture of scrapers of capacity exceeding 25 m³ is not visualized, but the power of the tractor is, however, to be increased, and tests carried out on D-295 bulldozers used in conjunction with 140 HP tractors showed them to be vastly superior to D-271 bulldozers used with C-80 tractors; production of D-275 machines is now to be transferred to the Bezhetskiy zavod (Bezhetskiy Works). The D-384 (Fig.4) and D-385 hydraulic-action bulldozers, produced by the Works imeni Kolyush-

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SOV/98-59-10-3/20

New Earth Moving Equipment

chenko and tested in 1957 in the Chelyabinsk area, are then treated by the author; the technical specifications of the former are given in table 6, and both machines are capable of moving soft earth for distances of 50-70 m, or 100 m with extended scoops. Mention is made of the 380 HP American Euclid TS-12 bulldozer, used for moving rocks up to 50 cm in diameter. The use of D-144 and D-265 autograders in road building is then discussed: they have proved unsatisfactory, and a new 150 HP D-395 experimental model has considerable advantages over them, being equipped with servo-drive, power steering, pre-heated water and oil, etc, but having the major fault of being very complex. There are 4 diagrams and 6 tables. The author states that the most serious shortcoming in Soviet production of earth-moving equipment is the long development period (several years from prototype to series production) and, he complains, this has caused Soviet designs to begin to lag behind similar foreign equipment.

Card 4/4

VASIL'YEV, M.V., kand. tekhn. nauk.

Improving the use and reducing the labor involved in conveyor
haulage in Ural Mountain coal pits. 'Izol' 34 no.1:24-28 Ja '59.
(MIRA 12:1)
(Ural Mountains--Strip mining) (Conveying machinery)

PHASE I BOOK EXPLOITATION

SOV/5757

Vasil'yev, Mikhail Vasil'yevich, and Kirill Petrovich Stanyukovich

V mire semi stikhiy (In a World of Seven Elements) [Moscow] Izd-vo
Tsk VLKSM "Molodaya gvardiya," 1961. 254 p. 33,000 copies printed.

Eds.: V. Pekelis and V. Fedchenko; Tech. Ed.: L. Kuvyrkova.

PURPOSE: This book is intended to acquaint the general reader with modern problems of physics.

COVERAGE: The book discusses hydro- and gasdynamics, explosion theory, field dynamics, and other fields of physics which made possible the present advanced state of aviation, rocket and hydraulic engineering, thermal engines, etc. The book is written in popular form, but treats difficult problems, such as the mastering of ultrasonic speeds, flight outside the earth's atmosphere, construction of photon rockets, and interstellar flight. The book attempts to answer such questions as: are speeds faster than light

Card 1/2

In a World of Seven Elements

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possible, was Einstein right, is there a fourth dimension, how old are atoms, etc. The foreword notes that some of the material is hypothetical, with proof still lacking and further investigations needed. Many personalities are mentioned in the text. The authors thank N. N. Bogolyubov, A. V. Fok, I. V. Kuznetsov, and M. V. Fok. There are no references.

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VASIL'YEV, Mikhail Vladimirovich, kand.tekhn.nauk; TYMOVSKIY, L.G.,
kand.tekhn.nauk, otv.red.; LYUBIMOV, N.G., red.izd-va;
BERESLAVSKAYA, L.Sh., tekhn.red.; BOLDYREVA, Z.I., tekhn.red.

[Modern open-pit mine haulage] Sovremenniy kar'erniy transport.
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960.
318 p. (MIRA 14:3)

(Mine haulage) (Strip mining)

FILATOV, S.S.; KOCHNEV, K.V.; VASIL'YEV, M.V.

Searching for practical methods of controlling exhaust gases from
truck haulage in strip mines. Gor.zhur. no.5:65-68 My '60.
(MIRA 14:3)

1. Ural'skiy filial AN SSSR, Sverdlovsk.
(Mine sanitation) (Automobile exhaust gas)

VASIL'YEV, M.V., kand.tekhn.nauk

Efficient parameters of dump trucks for open-pit mining. Gor.
zhur. no.9:38-41 S '60. (MIRA 13:9)

1. Ural'skiy filial AN SSSR.
(Strip mining) (Mine haulage) (Dump trucks)

VASIL'YEV, M.V., kand.tekhn.nauk

Helicopter descends into open-pit mines. Nauka i zhizn' 27 no.6:
63 Je '60. (MIRA 13:7)

1. Ural'skiy filial Akademii nauk SSSR.
(Helicopters) (Mine haulage) (Strip mining)

VASIL'YEV, M.V., kand.tekhn.nauk

"Transportation in open-pit mining" by M.G.Potapov. Reviewed by
M.V.Vasil'ev. Ugol' 35 no.1:64 Ja '60. (MIRA 13:5)

1. Gorno-geologicheskii institut Ural'skogo filiala AN SSSR.
(Bibliography--Strip mining)
(Potapov, M.G.)

VASIL'YEV, M. V.

Principal problems involved in truck haulage in open-pit mines.
Trudy Gor.-geol. inst. UFAI SSSR no.49:5-24 '60.
(MIRA 13:8)

(Strip mining) (Mine haulage)