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DIRECTORATE GENERAL BORDER ROADS

GENERAL MAINTENANCE INSTRUCTIONS

No.12

FUELS, LUBRICATING OILS AND GREASES OF USSR ORIGIN

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No.12

FUELS, LUBRICATING OILS AND GREASES OF USSR ORIGIN

GENERAL

1. A variety of equipment *of* USSR origin has-been procured for use by Projects under DGBR. The manufacturers' 'recommendations contained in their manuals list fuels, lubricating oils and greases *of* USSR origin for use with the equipment.

DATA

2. In Appendices A, B and C to this instruction can be found equivalents corresponding approximately to quality and application to the oil products produced in USSR. The nomenclatures are as furnished by firms in INDIA.

3. For hot and humid conditions, it is advisable to select more viscous oils i.e one number higher as per SAE specification. GMI No 5 on the subject *of* lubricants to be used in DGBR equipment may be used as a guide.

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FUELS

Appendix'A" to GMI No.12

Item No	SOVIET GRADES		SHELL	STANVAC	CALTEX	IOC	CASTROL
	Denomination	Grade USSR					
1	Aviation Gasoline	B-100/130	Aviation Gasoline 100/130	ESSO Aviation Gasoline 100/130	Caltex 100/130 Aviation Gasoline		NO PRODUCT
2	Aviation Gasoline	B-95/130	Aviation Gasoline 100/133	ESSO Aviation Gasoline 100/130	Caltex 100/130 Aviation Gasoline		
3	Aviation Gasoline	B-95/115	Aviation Gasoline 100/130	ESSO Aviation Gasoline 100/130	Caltex 100/130 Aviation Gasoline		
4	Aviation Gasoline	B-70	Aviation Gasoline 73	ESSO Aviation Gasoline 73	-		
5	Motor Gasoline	A-66	Aviation Gasoline 80-87	Mobilgas	Caltex I.C Plus Patrol (79 Octane)	IS : 1585-1960 Min 79 Grade Octane	
6	Motor Gasoline	A-72	Aviation Gasoline 80-87	Mobilgas	Caltex I.C Plus Patrol (79 Octane)	IS : 1585-1960 Min 79 Grade Octane	
7	Motor Gasoline	A-74	Aviation Gasoline 80-87	Mobilgas	Caltex I.C Plus Patrol (79 Octane)	IS : 1585-1960 Min 79 Grade Octane	
8	Motor Gasoline	A-76	Aviation Gasoline 80-87	Mobilgas	Caltex I.C Plus Patrol (79 Octane)	IS : 1585-1960 Min 79 Grade Octane	
9	Diesel fuel	DA		No Product	Caltax HI-Speedol (53 Minimum Cetane Index)		
10	Diesel fuel	DZ	-	No Product	Caltax HI-Speedol (53 Minimum Cetane Index)		

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FUELS

Appendix'A" to GMI No.12

Item No	SOVIET GRADES		SHELL	STANVAC	CALTAX	IOC	CASTROL
	Denomination	Grade USSR					
11	Diesel fuel	DP		No Product	Caltax HI-Speedol (53 Minimum Cetane Index)		NO PRODUCT
12	Diesel fuel	DS		No Product	Caltax HI-Speedol (53 Minimum Cetane Index)		
13	Diesel fuel	L	High Speed Diesel Cetane No 45-47	Mobil diesel	Caltax HI-Speedol (53 Minimum Cetane Index)		
14	Diesel fuel	Z	High Speed Diesel Cetane No 45-47	Mobil diesel	Caltax HI-Speedol (53 Minimum Cetane Index)	IS: 1460-1959	
15	Diesel fuel	S	High Speed Diesel Cetane No 45-47	Mobil diesel	Caltax HI-Speedol (53 Minimum Cetane Index)	Diesel Grade (A)	

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LUBRICANTS

Appendix'B' to GMI No.12

Item No	SOVIET GRADES		SHELL GRADE	SAE NO	STANVAC	CALTAX	IOC	CASTROL	SAE NO
	Denomination	Grade USSR							
1	Aviation Lub Oil	MK-22	Aeroshell Oil 100,100V	60	Esso Aviation oil 100	Aircraft Engine oil 100	No product	Castrolaero B	50
2	Aviation Lub Oil	MS-20	Aeroshell 120	60	Esso Aviation oil 120 or Aviation oil grade 120	Aircraft Engine oil 120		Castrolaero C	60
3	Aviation Lub Oil	MS-14	Aeroshell 8065	40	Esso Aviation oil 80 or Aviation oil grade 65	-		Castrolaero A	40
4	Aviation Lub Oil	MS-8	Aeroshell fluid		Esso Aviation UNIVS J-43	-		Hydraulic oil DTD/585	
5	Diesel Lub Oil	MS-16P	Rotella HD Rimila HD	40, 50	Delvac oil 94/950 DTE oil S-240	RPM delo Special SAE 40 & SAE 50 RPM Delo Supercharged SERIES III SAE 40 and SAE 50		Castrol CR/CRD	40/50

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6	Diesel Lub Oil	DP-14	Rotella HD Rimila HD	30, 40	Delvac oil 930/040 DTE oil S-240	RPM delo Special SAE 30 & SAE 40 RPM Delo Supercharged SERIES III SAE 50	Castrol CR/CRD	30/40
7	Diesel Lub Oil	DP-11	Rimula HD	3	Delvac oil S-230	RPM delo Supercharged III SAF 30	Castrol CRD	30
8	Diesel Lub Oil	DP-11	X-100	30	Mobil oil A (SAE 30)	RPM Motor oil SAE HD	Castrol XL Motor oil	30
9	Motor Lub Oil		Tolpa	30	Mobil oil DTE oil No.3 Mobil vacme oil No.3	URSA oil	Deusolo	30
10	Automobile Lub Oil	AK-15	X-100	40	Mobil oil AF (SAE 40)	RPM Motor oil SAE 40- HD	Castrol XXL Motor oil	40
11	Automobile Lub Oil	AK-10	X-100	30	Mobil oil AF (SAE 30)	RPM Motor oil SAE 30- HD	Castrol XL Motor oil	30

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Appendix'B' to GMI No.12

Item No	SOVIET GRADES		SHELL GRADE	SAE NO	STANVAC	CALTAX	IOC	CASTROL	SAE NO
	Denomination	USSR Grade							
12	Automobile Lub Oil	AK-9,5	X-100	30	Mobil oil A (SAE 30)	Aircraft Engine oil 100	No product	Castrolaero B	50
13	Automobile Lub Oil	AK-5-6	X-100	IO-10W	Mobil oil A (SAE IO-10W)	Aircraft Engine oil 120		Castrolaero C	60
14	Automobile Lub Oil	AS-5	X-100	IO-10W	Mobil oil A (SAE IO-10W)	-		Castrolaero A	40
15	Automobile Lub Oil	L	X-100	30	Mobil oil A(SAE 30)	-		Hydraulic oil DTD/585	
16	Automobile Lub Oil	Z	X-100	20	Mobil oil Arctic (SAE 30)	RPM delo Special SAE 40 & SAE 50 RPM Delo Supercharged SERIES III SAE 40 and SAE 50		Castrol CR/CRD	40/50
17	Industrial Lub Oil	50	Vitrea or Turbo oil 37	38	Mobil DTE oil Heavy	RPM delo Special SAE 30 & SAE 40 RPM Delo Supercharged SERIES III SAE 50		Castrol CR/CRD	30/40
18	Industrial Lub Oil	45	Tellus, Vitrea or Turbe oil 33	41	Mobil Vactra oil Extra Heavy	RPM delo Supercharged III SAF 30		Castrol CRD	30

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19	Industrial Lub Oil	30	Tellus or Turbe oil 29	33	Mobil DTE oil Heavy medium	RPM Motor oil SAE HD	Castrol XL Motor oil	30
20	Industrial Lub Oil	20	Tellus, Vitrea or Turbe oil 27	27	Mobil Vactra oil Heavy /medium/ Mobil DTE Oil heavy medium	URSA oil	Deusolo	30
21	Industrial Lub Oil	12	Tellus or Vitrea oil 21	21	Mobil Velocite Oil E	RPM Motor oil SAE 40-HD	Castrol XXL Motor oil	40
22	Spindle Oil	AU	Tellus oil 21	25	Mobil Velocite Oil Light	RPM Motor oil SAE 30-HD	Castrol XL Motor oil	30

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Appendix'B' to GMI No.12

Item No	SOVIET GRADES		SHELL GRADE	SAE NO	STANVAC	CALTAX	IOC	CASTROL	SAE NO
	Denomination	USSR Grade							
23	Turbine Oil	22 (L)	Turbo Oil 27	29	Mobil DTE oil Medium	Regal Oil B (R&O)	No product	Perfecto Special X	
24	Turbine Oil	30 (UT)	Turbo Oil 29	33	Mobil DTE oil heavy Medium	Regal Oil PC (R&O)		Perfecto Medium	
25	Turbine Oil	46 (T)	Turbo Oil	37	Mobil DTE oil heavy	Regal Oil PE		Perfecto Heavy	
26	Transformer Oil	-	Diala Oil B,C or BX	VB SC VH BX	Mobil Transformer oil E	Transformer Oil BSI		ILO Transformer Oil	
27	Compressor Oil	12(M)	Talpa Oil 30 or 40	US-3	Mobil oil No 4 Mobil Vacame Oil No.4	URSA oil MED Heavy		DEUSOL D	40
28	Compressor Oil	19(T)	Talpa 50	US-3	Mobil oil No 4 Mobil Vacame Oil No.5	URSA oil Heavy		DEUSOL S	50

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29	Transmission	L	Dentax 140	140	Mobilube C-140	Caltex Thuban 40	Castrol D Gear Oil	140
30	Transmission	L*	Spirax 140 EP	140	Mobilube GX-140	Universal Thuban 140	Castrol Hipress Gear Oil	140 EP
31	Transmission	Z	Dentax 90	90	Mobilube C-90	Caltex Thuban 90	Castrol ST Gear Oil	90
32	Transmission	Z	Spirax 90 EP	90	Mobilube GX-90	Universal Thuban 90	Castrol HYPOY Gear oil	90 EP

** For heavy duty transmission operating at considerable loads.

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GREASES

Appendix 'C' to GMI No.12

Item No	SOVIET GRADES		SHELL GRADE	STANVAC	CALTAX	IOC	
	Denomination	USSR Grade					
1	Synthetic Cup-greases	USs-1	Unedo Grease 1 or Alvania grease 1 or Retinax A	S/V Special Lubricant No 3		No product	HELVEUM No.1 grease
2	Synthetic Cup-greases	USs-2	Unedo Grease 2 or Alvania grease 2 or Retinax A	S/V Special Lubricant No 3			HELVEUM No.2 grease
3	Cup-greases based on natural facts	US-1	Unedo Grease 1 or Alvania grease 1 or Retinax A	S/V Special Lubricant No 3			HELVEUM No.1 grease
4	Cup-greases based on natural facts	US-2	Unedo Grease 2 or Alvania grease 2 or Retinax A	S/V Special Lubricant No 3			HELVEUM No.2 grease
5	Grease I-13	UTV	Unedo Grease 2 or Alvania grease 2 or Retinax A	Greasrex J -18	Calatex MARFAK 2 HD		Spheerol S grease
6	Graphite grease	Uss A	Barbatia grease 3	Graphite grease medium	Caltex 904 grease		Spheerol LG grease

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7	Technical Vaseline	UN	Otina A/Green Petrolatum	Amber Petrolatum		Petroleum Jelly Red
8	Wire rope grease		Shell Ensis Compound 356	Prowax 2295-IA	Caltex Crater O	Castrolase CL grease