

MATERIAL LIFT
GRADER
PLANER
ROLLER
CRANE

Shop Manual

J-2 R1

LUBRICATION SPECIFICATIONS

APPLICABLE MATERIAL LIFT MODEL

ML40

SERIAL NUMBER

40001 & Up

APPLICABLE GRADER MODEL

503L
T400A
T500C & M
T600C
A500
A550
A600

SERIAL NUMBER

06112 & Up
01001 & Up
07995 & Up
02536 & Up
09296 & Up
09251 & Up
02850 & Up

APPLICABLE PLANER MODEL

RP 12
RP 30/42
RP 60

SERIAL NUMBER

00137 & Up
01001 & Up
04001 & Up

APPLICABLE ROLLER MODEL

S3-5A/S4-6A
S3-5B/S4-6B
S5-8A thru S10-14A
P3500A
84" Vibratory
66" Vibratory

SERIAL NUMBER

55703 & Up
59375 & Up
57392, 58035 & Up
05604, 05605 & 05679 & Up
450001 & Up
470003 & Up

APPLICABLE CRANE MODEL

80
90 thru 125
90A thru 125A
125F
125FA
125P
140F
150A
150FA
150 P/T
180S
220A
220S

SERIAL NUMBER

04001 & Up
02965 & Up
02006 & Up
07247 & Up
07990 & Up
01001 & Up
07571 & Up
02832 & Up
07305 & Up
01011 & Up
08502 & Up
07107 & Up
07724 & Up



GALION MANUFACTURING DIVISION

Dresser Industries, Inc., P.O. Box 647, Galion, Ohio 44833, U.S.A.

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MATERIAL LIFTS

COMPONENT	MACHINE MODEL	TABLE
HYDRAULIC TANK*	ML40	A or N
TRANSMISSION	ML40	A
PLANETARIES	ML40	C or D
AXLE DIFFERENTIAL	ML40	C or D
BRAKE MASTER CYLINDER	ML40	P
GREASE ZERKS	ML40	O

GRADERS

COMPONENT	MACHINE MODEL	TABLE
CIRCLE REVERSE GEAR CASE	503L	E
	T400A	E
	T500C & M	C
	T600C	C
	A500	C
	A550	C
	A600	C
CIRCLE & CIRCLE SHOES	503L	F
	T400A	F
	T500C & M	F
	T600C	F
	A500	F
	A550	F
	A600	F
TANDEMS	503L	B,G,H
	T400A	C,D,A
	T500C & M	A
	T600C	A
	A500	A
	A550	A
	A600	A
TRANSMISSION	503L	B,G,H
	T400A	A
	T500C & M	A
	T600C	A
	A500 FUNK	L
	CLARK	A
	A550 FUNK	L
	CLARK	A
	A600	A

*DO NOT MIX (See page 16)

GRADERS

COMPONENT	MACHINE MODEL	TABLE
HYDRAULIC TANK	503L	A
	T400A	A
	T500C & M	A
	T600C	A
	A500	A
	A550	A
	A600	A
REAR AXLE	503L	C or D
	T400A	C or D
	T500C & M	C or D
	T600C	C or D
	A500	C or D
	A550	C or D
	A600	C or D
GREASE ZERKS	ALL	O
BRAKE MASTER CYLINDER	ALL	P

PLANERS

COMPONENT	MACHINE MODEL	TABLE
DRUM DRIVE GEAR CASE	RP 12	D
REAR AXLE	RP 30/42	C or D
	RP 60	D
POWER STEERING PUMP	RP 60	A
PUMP DRIVE	RP 60	H
HYDRAULIC TANK	RP 12	N
	RP 30/42	M
	RP 60	M
TRANSMISSION	RP 30	A
TANDEMS	RP 30	A
GREASE ZERKS	ALL	O
BRAKE MASTER CYLINDER	ALL	P

ROLLERS

COMPONENT	MACHINE MODEL	TABLE
PUMP DRIVE	66" Vibratory	J
PLANETARIES	66" Vibratory	J
FINAL DRIVE	S3-5A/S4-6A	D
	S3-5B/S4-6B	D
	S5-8A thru S10-14A	D
	84" Vibratory	D
HYDRAULIC TANK	S3-5A/S4-6A	A
	S3-5B/S4-6B	A
	S5-8A thru S10-14A	A
	P3500A	A
	84" Vibratory	A
	66" Vibratory	A
VIBRATOR HOUSING	84" Vibratory	A
	66" Vibratory	J
TRANSFER CASE	84" Vibratory	D
TRANSMISSION	P3500A	D
REVERSING UNIT	P3500A	A
GREASE ZERKS	ALL	O
BRAKE MASTER CYLINDER	ALL	P

CRANES

COMPONENT	MACHINE MODEL	TABLE
AXLE DIFFERENTIAL	80	D
	90 thru 125	C or D
	90A thru 125A	C or D
	125F	C or D
	125FA	C or D
	140F	D
	150A	C or D
	150FA	C or D
	180S	D
	220A	D
	220S	D

CRANES

COMPONENT	MACHINE MODEL	TABLE
SWING GEAR CASE	80	B or D
	90 thru 125	B
	90A thru 125A	B,C,D
	125F	C or D
	125FA	C or D
	125P	B
	140F	C or D
	150A	C or D
	150FA	C or D
	150P & T	C
	180S	C or D
	220A	C or D
	220S	C or D
WINCH GEAR CASE	80	B or D
	90 thru 125	B
	90A thru 125A	B,C,D
	125F	C or D
	125FA	C or D
	125P	B
	140F	C or D
	150A	B,C,D
	150FA	C or D
	150P & T	C
	180S	C or D
	220A	C or D
	220S	C or D
PLANETARIES	80	D
	90 thru 125	C or D
	90A thru 125A	C or D
	125F	C or D
	125FA	C or D
	140F	C or D
	150A	C or D
	150FA	C or D
	180S	D
	220A	D
220S	D	
HYDRAULIC TANK*	80	A or N
	90 thru 125	N
	90A thru 125A	A or N
	125F	A or N
	125FA	A or N
	125P	N
	140F	N
	150A	A or N
	150FA	A or N
	150P & T	N
	180S	N
220A	N	
220S	N	

*DO NOT MIX (See page 16)

CRANES

COMPONENT	MACHINE MODEL	TABLE
FORWARD/REVERSE UNIT	80	A
	90 thru 125	A
	125F	A
	140F	A
STEERING GEAR	90 thru 125	C or D
	90A thru 125A	C or D
	125F	C or D
	125FA	C or D
	140F	C or D
	150A	C or D
	150FA	C or D
TRANSFER CASE	80	D
TRANSMISSION	80	B or D
	90 thru 125	B
	90A thru 125A	A
	125F	C or D
	125FA	A
	140F	C or D
	150A/150FA ALLISON CLARK	K
	180S	A
	220A	A
	220S	A
THROTTLE ACTUATOR CYLINDER AND RESERVOIR	180S	N
	220S	N
BRAKE ACTUATOR CYLINDER AND RESERVOIR	180S	N
	220S	N
GREASE ZERKS	ALL	O
BRAKE MASTER CYLINDER	ALL	P
SWING DRIVE PINION	ALL	F

TABLE A
TRANSMISSION FLUID
TYPE ATF

LUBRICATION CHART CODE: **ATF**

PROPERTIES:

		TEST
AQ-ATF, TYPE A, SUFFIX A		
GRAVITY API	28.2	D287
VISCOSITY, SUS @ 100°F.(38°C.)	185.0	D445, 2161
VISCOSITY, SUS @ 210°F.(98°C.)	50.85	D445, 2161
VISCOSITY INDEX	172	D2270
POUR POINT °F.(°C.)	-45(-43)	D97
FLASH POINT °F.(°C.)	375(191)	D92
COLOR	RED	

DEXRON

GRAVITY API	29.5	D287
VISCOSITY, SUS @ 100°F.(38°C.)	210	D2161
VISCOSITY, SUS @ 210°F.(98°C.)	51.2	D2161
VISCOSITY INDEX	148	D2270
POUR POINT °F.(°C.)	-50(-46)	D97
FLASH POINT °F.(°C.)	380(193)	D92
COLOR	RED	

ALTERNATIVE (IF ATF OR DEXRON ARE NOT AVAILABLE)

LUBRICATION CHART CODE: **D**

DEXRON II

PROPERTIES:

GRAVITY API	30.4	D287
VISCOSITY, CENTISTOKES @ 104°F.(40°C.)	33.0	D445
VISCOSITY, CENTISTOKES @ 212°F.(100°C.)	6.5	D445
VISCOSITY, SUS @ 100°F.(38°C.)	165	D88
VISCOSITY, SUS @ 210°F.(99°C.)	50	D88
VISCOSITY INDEX	155	D2270
VISCOSITY, CENTIPOISE @ -40°F.(-40°C.)	50,000	D2983
POUR POINT °F.(°C.)	-45(-43)	D97
FLASH POINT °F.(°C.)	320(160)	D92
COLOR	RED	

SOURCES:

SUN OIL COMPANY	SUNOCO DEXRON II
MOBIL OIL CORPORATION	MOBIL ATF 220

TABLE B
ENGINE OIL SAE 50HD

LUBRICATION CHART CODE: **E050**

PROPERTIES:

MILITARY SPEC. MIL-L-2104C, MC-132 & MIL-L-46152, ML-244		
API ENGINE SERVICE CC		
1% (MAX.) ASH		
		TEST
GRAVITY	27.5	D287
FLASH POINT °F.(°C.)	500(260)	D92
VISCOSITY SUS 100°F.(38°C.)	1134	D2161
VISCOSITY SUS 210°F.(99°C.)	97.5	D2161
VISCOSITY INDEX	101	D2270
POUR POINT °F.(°C.)	0(-18)	D97
SULFATED ASH % WEIGHT	1.0	D874

SOURCES:

SUN OIL COMPANY	SUNFLEET SUPER C SAE 50
MOBIL OIL CORPORATION	DELVAC 1150
TEXACO	URSA EXTRA DUTY 50

TABLE C
EXTREME PRESSURE GEAR OIL
SAE 80

LUBRICATION CHART CODE: **EP80 OR 80**

PROPERTIES:

MIL-L-2105C, API-GL-4 EP, API-GL-5 EP	
VISCOSITY SUS @ 210°F.(99°C.)	55-85
VISCOSITY INDEX	100 MIN.
API GRAVITY	25-29
CHANNEL POINT	-30°F. MAX. (-34°C. MAX.)
FLASH POINT	395°F. MIN. (202°C. MIN.)
MOISTURE	0.2% MAX.

SOURCES:

SUN OIL COMPANY	SUNFLEET GL-5 80W-90
STANDARD OIL (OHIO)	GEAREP 80
TEXACO INC.	TEXACO MULTI-GEAR EP 80
SHELL	SPIRAX HD 80W-90
MOBIL OIL CORPORATION	MOBILUBE HD 80W-90

TABLE D
EXTREME PRESSURE GEAR OIL
SAE 90

LUBRICATION CHART CODE: **EP90 OR 90**

PROPERTIES:

MIL-L-2105C, API-GL-4, API-GL-5 EP	
VISCOSITY SUS @ 210°F. (99°C.)	75-120
VISCOSITY INDEX	90 MIN.
API GRAVITY	24-27
CHANNEL POINT	0°F. MAX. (-18°C.)
FLASH POINT	350°F. MIN. (177°C.)
MOISTURE	0.2% MAX.

SOURCES:

SUN OIL COMPANY	SUNFLEET GL-5 80W-90
STANDARD OIL (OHIO)	GEAREP 90
TEXACO INC.	TEXACO MULTI-GEAR EP 90
SHELL	SPIRAX HD 85W-90
MOBIL OIL CORPORATION	MOBILUBE HD 80W-90

TABLE E
WORM GEAR LUBRICANT

LUBRICATION CHART CODE: **WGL**

PROPERTIES:

VISCOSITY SUS @ 100°F. (38°C.)	3,000-4,000
VISCOSITY SUS @ 210°F. (99°C.)	125-175
POUR POINT	30°-35°F. (-1° to 2°C.)
SAPONIFICATION NO.	11-14
RUST TEST	NONE

SOURCES:

SUN OIL COMPANY	SUNOCO GEAR OIL 8C
TEXACO INC.	TEXACO 650-T CYLINDER OIL
SHELL	VALVATA J-77
MOBIL OIL CORPORATION	600W SUPER CYLINDER OIL

TABLE F
OPEN GEAR LUBRICANT
SPECIAL PURPOSE

LUBRICATION CHART CODE: OGL OR ML2

PROPERTIES:		TEST
NLGI GRADE	2	
PENETRATION, WORKED @ 77°F.(25°C.)	280	D217
VISCOSITY, MAC MICHAEL AT 70°F.(21°C.)	----	SUN M-15
SOAP, TYPE	LITHIUM	D128
SOAP, % LITHIUM	8.5	D128
DROPPING POINT, °F.(°C.)	375(191)	D2265
PENETRATION, 10,000 STROKES, CHANGE	290	D217
BASE OIL DATA		
VISCOSITY, SUS/100°F.(38°C.)	790	D2161
VISCOSITY, SUS/210°F.(99°C.)	59.2	D2161
FLASH, COC, °F.(°C.)	395(201)	D92
ANILINE POINT, °F.(°C.)	166(74)	D611
GRAVITY, °API	19.1	D287
WATER, %	NIL	D128
RUST TEST RATING	2	D1743
COPPER CORROSION	PASS	D1261
OXIDATION STABILITY	----	D942
PSI DROP/100 HRS.	8.5	
PSI DROP/500 HRS.	----	
WATER WASHOUT, % AT 100°F.(38°C.)	3.1	D1264
WHEEL BEARING LEAKAGE, gms.	3	D1263
TIMKEN LB. PASS	45	D2509
FOUR-BALL TESTS		
LOAD WEAR INDEX	37.6	FED.6503
WEAR, SCAR, mm	.50	D2266
WELD POINT, kg	280	FED.6503
BALL JOINT TEST, mg WEAR	18	SUN J-123
SOURCES:		
SUN OIL COMPANY		SUNFLEET HP GREASE
MOBIL OIL CORPORATION		MOBILGREASE SPECIAL
TEXACO INC.		MOLYTEX #2

TABLE G
STRAIGHT MINERAL GEAR OIL

LUBRICATION CHART CODE: **SAE 80**

PROPERTIES:

VISCOSITY S.S.U. @ 210°F.(99°C.)	55-65
FLASH POINT °F.(°C.) MINIMUM	325(163)
CHANNEL POINT °F.(°C.)	-30(-34)
RUST PROTECTION (D665)	PASS
FOAM INHIBITED (STM 75)	YES
TEMPERATURE RANGE - BELOW 0°F.(-18°C.)	

SOURCES:

SUN OIL COMPANY	SUNVIS 951
STANDARD OIL (OHIO)	INDUSTRON 66
TEXACO INC.	THUBAN 80
MOBIL OIL CORPORATION	MOBIL DELVAC 1130 or 1230

TABLE H
STRAIGHT MINERAL GEAR OIL

LUBRICATION CHART CODE: **SAE 90**

PROPERTIES:

VISCOSITY S.S.U. @ 210°F.(99°C.)	85-95
FLASH POINT °F.(°C.) MINIMUM	350(177)
CHANNEL POINT °F.(°C.)	0(-18)
RUST PROTECTION (D665)	PASS
FOAM INHIBITED (STM75)	YES
TEMPERATURE RANGE - ABOVE 0°F.(-18°C.)	

SOURCES:

SUN OIL COMPANY	SUNVIS 999
STANDARD OIL (OHIO)	INDUSTRON 80
TEXACO INC.	THUBAN 90
SHELL	DENTAX 90
MOBIL OIL CORPORATION	MOBILUBE C-90

TABLE I
ENGINE OIL SAE 30HD

LUBRICATION CHART CODE: **E030**

PROPERTIES:	TEST
MILITARY SPEC. MIL-L-2104C	
API ENGINE SERVICE CC	
1% (MAX.) ASH	
GRAVITY	27.5 D287
FLASH POINT °F.(°C.)	500 D92
VISCOSITY SUS 100°F.(38°C.)	1134 D2161
VISCOSITY SUS 210°F.(99°C.)	97.5 D2161
VISCOSITY INDEX	101 D2270
POUR POINT °F.(°C.)	0(-18) D97
SULFATED ASH, % WEIGHT	1.0 D874

SOURCES:

SUN OIL COMPANY	SUNFLEET HP SAE 30
MOBIL OIL CORPORATION	MOBIL DELVAC 1130
SHELL	ROTELLA 30
TEXACO INC.	URSA EXTRA DUTY 30

TABLE J
SYNTHESIZED HYDROCARBON
BASE FLUID - GEAR OIL
(HIGH TEMPERATURE GEAR LUBRICANT)

LUBRICATION CHART CODE: **HTGO**

PROPERTIES:	
VISCOSITY S.S.U. @ 100°F.(38°C.)	2060
VISCOSITY S.S.U. @ 210°F.(99°C.)	189
FLASH POINT °F.(°C.) MINIMUM	500(260)
CHANNEL POINT °F.	
RUST PROTECTION (D665)	PASS
FOAM INHIBITED (STM75)	
VISCOSITY INDEX.	148
POUR POINT °F.(°C.) MAX.	-40(-40)
SPECIFIC GRAVITY, 60/60°F.(15.6/15.6°C.)	0.848
GRAVITY, API.	35.4
COLOR ASTM	L1.0
ISO VISCOSITY GRADE	----
COPPER CORROSION, ASTM D130	
24h AT 212°F(100°C.)	1b
PHOSPHORUS, WT %	0.01
TEMPERATURE RANGE - ABOVE 0°F.(-18°C.)	

SOURCES:

MOBIL OIL CORPORATION	SHC 634
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TABLE K
TRANSMISSION FLUID
TYPE C-2

LUBRICATION CHART CODE: **C2**
 TYPE: C-2 & MIL-L-2104 GRADE 10 ABOVE -10°F.
 TYPE: C-2 REPLACE TYPE C-1 & TYPE A OIL

PROPERTIES:		TEST
GRAVITY API.	27.9	D287
FLASH POINT °F.(°C.)	395(202)	D92
POUR POINT °F.(°C.)	-50(-46)	D97
VISCOSITY, cP, °F.(-18°C.)	2000	D2602
VISCOSITY, SUS, 100°F.(38°C.)	200	D2161
VISCOSITY, SUS, 210°F.(99°C.)	47.0	D2161
VISCOSITY INDEX	105	D2270

SOURCES:

SUN OIL COMPANY	SUNFLEET C2/C3 FLUID
SHELL	DONAX T-5
TEXACO INC.	C-2 TORQUE FLUID
MOBIL OIL CORPORATION	MOBIL DELVAC 1210 or POWERFLUID C-2/C-3

TABLE L
TRANSMISSION FLUID
TYPE C-3

LUBRICATION CHART CODE: **C3**
 TYPE: MIL-L-10295 TO LATEST SPECIFICATION
 MIL-L-2104C GRADE 10

ALLISON TYPE C3 OR AN EQUIVALENT AS LISTED BELOW

PROPERTIES:		TEST
GRAVITY	30.6	D287
VISCOSITY @ 100°F. cSt(38°C.)	43.21	D445
VISCOSITY @ 100°F. SUS(38°C.)	201	D2161
VISCOSITY @ 210°F. cSt(98°C.)	6.52	D445
VISCOSITY @ 210°F. SUS(98°C.)	47.5	2161
VISCOSITY INDEX	113	D567
POUR POINT °F.(°C.)	-20(-29)	D97
FLASH POINT °F.(°C.)	425(218)	D92
COLOR	6	D1500
ZINC, WT., %	0.11	STM-208
ASH, SULFATED, WT., %	05000.98	D874

SOURCES:

SUN OIL COMPANY	SUNFLEET C2/C3 FLUID
CHEVRON OIL COMPANY	CHEVRON DELO 400 MOTOR OIL SAE 10W
TEXACO INC.	TORQUE FLUID C-3
MOBIL OIL CORPORATION	MOBIL DELVAC 1310 or POWERFLUID C-2/C-3

**TABLE M
HYDRAULIC OIL**

LUBRICATION CHART CODE: **HO**

PROPERTIES:

GRAVITY, API	29.9
SPECIFIC GRAVITY	0.877
POUR POINT, MAX. F(C)	0(-18)
FLASH POINT, MIN. F(C)	400(204)
VISCOSITY	
SUS AT 100 F.	300
SUS AT 210 F.	53
cSt AT 38 C.	65
cSt AT 99 C.	8.2
VISCOSITY INDEX	95
RUST, ASTM D 665 A & B	PASS
COLOR, ASTM. MAX.	3.5
CINCINNATI MILACRON, INC.	
C M CO. HEAT TEST	
1 WEEK AT 275°F.(135°C.)	PASS

SOURCES:

SUN OIL COMPANY	SUNVIS 831
MOBIL OIL CORPORATION	DTE 26
SHELL	TELLUS 33
TEXACO INC.	RANDO OIL HD315

**TABLE N
HYDRAULIC OIL**

LUBRICATION CHART CODE: **HO**
 TYPE: MIL-L-17672A, GRADE 2110 TL

PROPERTIES:		TEST
GRADE	44	
ISO VG	32	
GRAVITY, API	30.9	D287
POUNDS PER GALLON	7.25	
VISCOSITY		
KINEMATIC, cSt @ 40°C.	30.1	D445
cSt @ 100°C.	5.0	D445
SAYBOLT, SUS @ 100°F.	153	D2161
SUS @ 210°F.	43	D2161
VISCOSITY INDEX, MIN.	95	D2270
POUR POINT, °C.(°F.)	-29(-20)	D97
FLASH POINT °C.(°F.)	204(400)	D92
COLOR ASTM	L1.0	D1500
ANILINE NO. °C.(°F.).	100(212)	D611
SEAL GARD CONDITIONING		
ADDITIVE	YES	
AGMA NO.	---	
ASTM GRADE	150	
SAE NO. (CRANKCASE OIL)	10W	
SAE NO. (GEAR LUBRICANT)	---	

SOURCES:	
SUN OIL COMPANY	SUN PREMIUM HYDRAULIC OIL 150
STANDARD OIL (OHIO)	INDUSTRON 44
SHELL	TELLUS 25
MOBIL OIL CORPORATION	MOBIL DTE 13

TABLE O
MULTI-PURPOSE LITHIUM BASE GREASE

LUBRICATION CHART CODE: **MP OR MPG**

PROPERTIES:

PENETRATION (D-217)	
UNWORKED	275
WORKED 60 STROKES	270
WORKED 10,000 STROKES	LESS THAN 5% RAISE
DROPPING POINT (D-566).	380°F.MIN.
WATER RESISTANCE	EXCELLENT
ASTM OXIDATION (D-942)	NEGATIVE
TEXTURE	BUTTERY & SMOOTH
SOAP BASE	LITHIUM
BASE OIL, POUR	-10
VISCOSITY AT 210°F.(98°C.)	78
VISCOSITY INDEX	95
OXIDATION INHIBITED	YES
COORDINATING RESEARCH CONCIL TEST	
WHEEL BEARING	PASSES
WHEEL BEARING OVERPACKED	PASSES

SOURCES:

SUN OIL COMPANY	SUNFLEET HP GREASE
TEXACO INC.	MULTIFAK EP2
SHELL	ALVANIA EP-2
MOBIL OIL CORPORATION	MOBILGREASE 77

TABLE P
BRAKE FLUID

LUBRICATION CHART CODE: **BF**

PROPERTIES:

FLASH POINT	
CLEVELAND OPEN CUP.	270°(132°C.)
COLOR	LIGHT STRAW

TYPE: SAE 70R-3

SUITABLE FOR ALL AMBIENTS TO -60°F.(-51°C.)
MILITARY SPEC. VV-H-910(H58)

SOURCES:

WAGNER-LOCKHEED	21B
MOBIL OIL CORPORATION	MOBIL SUPER HEAVY DUTY BRAKE FLUID

USES:

TO BE USED IN ALL BRAKE SYSTEMS

It is imperative the new specification lubricants not be mixed with the old specifications in any manner.

When changing to a new specification, particularly in the Material Lift and Hydraulic Crane hydraulic tanks, the following procedure should be practiced:

1. After the unit has been operated sufficiently to bring the lubricant to normal operating temperature, remove drain plug and completely drain lubricant.
2. After draining, flushing is desirable. Clean and replace drain plug and clean fill plug area. Fill the unit to the correct level with a light flushing oil. Operate the unit for a short period of time (5-10 minutes) under extremely light or no load condition. Drain ALL of the flushing oil from the unit while it is warm. Clean and replace drain plug.
3. To refill, clean the area around the fill plug and fill the unit to the correct level with the new specification lubricant. DO NOT OVERFILL as an excessive amount will serve no useful purpose.
4. Use same level checks and drain intervals outlined on lubrication chart and in operator's manual for the new lubricant.

NOTE: *Mixing of the lubricants could cause damage and CANNOT BE TOLERATED. If there is any doubt whether the unit has been filled with the old or new lubricant, the unit should be drained and flushed. A very simple test to use in the case of hydraulic tank/hydraulic system is: if the oil is clear, add clear; if red, add red. HO is clear in color; ATF, Dexron and Dexron II are red.*