

Correct Lubrication

CATEGORY: Information for Factory Implementation

Summary: It has been brought to the attention of CarnaudMetalbox Engineering that some customers have experienced difficulty in selecting the correct lubricants for their machine. Using the wrong lubricant can lead to problems with machine function and can lead to premature component failure, therefore this bulletin has been produced to clarify the correct lubrication requirements for these machines.

The 240 SN and 245 SPN lubrication system has been carefully designed to reduce maintenance and manual lubrication to an absolute minimum.

IMPORTANT: Although the manual lubrication input requirement is extremely low for a large complex machine, it is also easily overlooked unless properly scheduled as part of the company 'Maintenance Procedure'.

On the following pages are copies of the machine Lubrication Chart - [Lub. 318](#) and Chart of Recommended lubricants - [Lub. 260](#).

Copies of these are supplied attached to the machine in laminated plastic form and are also included in the machine manuals issued with the machine.

A guide to reading the charts follows on this page.

For further details about the machine lubrication please contact either of the contacts below quoting Technical Bulletin Number

TB240-005

Reference: A complete Library of Technical Bulletins is accessible on the Company Web Site.



Description of Machine Lubrication Charts and how they should be read:

Frequency:

Letters **W** (every hour / 4 hours), **X** (daily), **Y** (weekly) and **Z** (monthly) are to show the frequency of lubrication required, based on a Single Shift, 5 day week, thus daily (**X**) means every 8 hours.

Grade of Lubricant (CarnaudMetalbox):

Standard Lubricants are coded alphabetically A, B, C, D, E, F etc. and are identified on the *Recommended Lubricants chart*.

Special Purpose Lubricants are shown by Symbols, i.e. *  and are identified on the *Machine Lubrication Chart*

Recommended Lubricants Chart (Lub 260): The Chart is supplied with the *Machine Lubrication Chart* and identifies alternate lubricants against the coded letters. Special Lubricants are not Shown

NOTE: The *Machine Lubrication Chart* gives the Special Purpose Lubricants and the Standard Lubricants recommended as first choice by CarnaudMetalbox.

Machine Lubrication Chart: The Chart shows a diagram of the machine with the approximate position of each lubrication point identified, and connected by line and point identification number to letters/symbols showing the Frequency and Grade of Lubricant.

At the right hand side of the chart is a list giving a brief description of the mechanism to be lubricated and the number of points, where more than one, given in brackets followed by the point identification number.

This list states the frequency of lubrication i.e every three months, six months or twelve months.

The list also gives the Supplier and name of lubricant for Special Purpose Lubricants and the first choice recommendations for the Standard Lubricants.

Notes are also given on the Lubrication Chart to indicate such as oil level indicators and oil filters.

On charts printed in colour, types of lubricant are shown in colour, Red for oil, Yellow/Orange for general purpose grease and Brown for hand applied grease.

Adrian Long,
CarnaudMetalbox Engineering Plc,
Dockfield Road, Shipley,
West Yorkshire, BD17 7AY, UK
Tel: +44 1274 846208, Fax: +44 1274 846201
email: adrian.long@eur.crowncork.com

Paul J Orsino III,
CarnaudMetalbox Engineering Plc,
79 Rockland Road, Norwalk,
Connecticut 06854, USA
Tel: +1 203 853 7325, Fax: +1 203 866 7627
email: porsino@crowncork.com

Lubrication Instructions

Chart No: Lub 318

Sheet 1 of 1

Machine: 240 SN / 245 SPN

Machine Code: 198014 / 198015

Warning

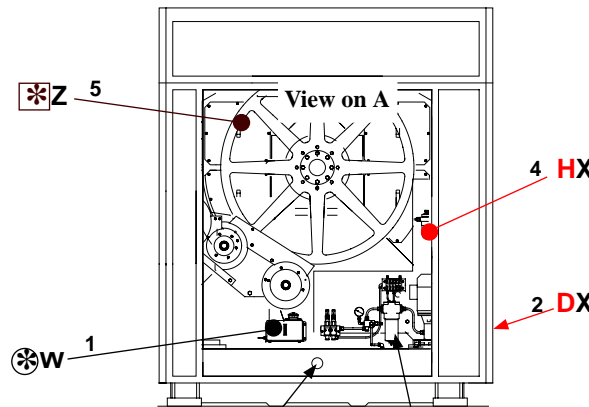
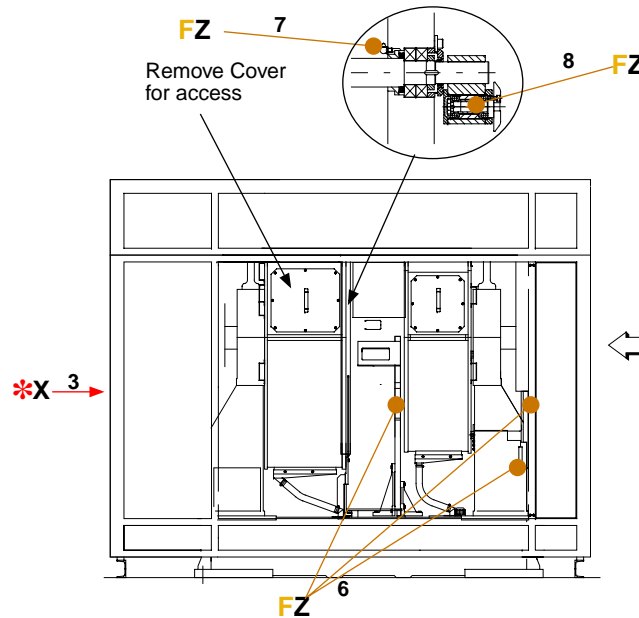
Do not mix brands or mix grades.
Stop machine before lubricating.
Oil cans and grease guns must only be filled up by the storekeeper.

Frequency

W Every Hour / Four Hours
X Daily
Y Weekly
Z Monthly (or every 3, 6 or 12 months)

Number of points shown in brackets

CarnaudMetalbox Grade	Type
D	Medium Gear Oil
F	General Purpose Grease
H	Hydraulic Oil
*	Special Purpose Oil
*Z	Special Purpose Grease
*W	Special Lubricant
Issue	Drawn
12. 04. 99	S. H.



Sump Oil Level
Check Level Daily

Replaceable Oil Filter Element
(refer to machine manual for Part Number)

Check Level Hourly:-
***W** Neck Spray Tank (when fitted) 1
Replenish with Special Lubricant
Esso Isopar G

Check Daily:-
DX Oil Sump 2
Capacity 230- Litres
Check Oil Level and top up as required.
Change the Oil and flush out the Main Sump once a year
Use Shell Omala 150,
Mobil - Mobilgear 629 or equivalent

***X** Worm Gear Unit 3
Change the oil once a Year
Replenish with Special Purpose Oil
Kluber - Syntheso D 220 EP

HX Air Lubricator (1) 4
Check level daily and top up when required.
Use Shell-Tellus R37,
Mobil-DTE Light or equivalent

Every Three Months:-
***Z** Turret Drive Gears 5
Paint on Special Purpose Grease
Rocol - Tufgear 90

Every SixMonths:-
FZ Infeed / Discharge Turret Shaft Brgs. (6) 6
FZ Necking Lever Shaft Brgs. (48) 7
(Remove Inspection Cover for access).
Use Shell Alvania R2,
Mobil - Mobilux EP2 or equivalent

Every Twelve Months:-
FZ Necking Disc Spindle Brgs. (48) 8
Repack the Spindle Brgs. with grease.
Ensure spaces between Balls, Cages & Central Spacers are filled. Scrape excess grease flush with faces of Outer Brgs.
Use Shell Alvania R2,
Mobil - Mobilux EP2 or equivalent

Recommended Lubricants for Customers

SUPPLIERS

REFER TO INDIVIDUAL MACHINE LUBRICATION CHARTS FOR RECOMMENDED LUBRICATION GRADE LETTERS

CMB GRADE	NOTES	BP	CASTROL	ESSO	GULF	TEXACO	SHELL	MOBIL	KLUBER
A	SPINDLE OIL	ENERGOL HPL 10	HYSPIN AWS 10	NUTO H 10	HYDRASIL 10	RANDO HD 10	TELLUS R 10	VELOCITE No. 6	CRUCOLAN 10
B	LIGHT GEAR OIL	ENERGOL CS 68	HYSPIN AWS 68	NURAY 68	SECURITY 68	REGAL R & O 68	VITREA 68	DTE HEAVY MEDIUM	KLUBEROIL GEM 1-68
C	CONSTANT LOSS OIL	ENERGOL CS 100	MAGNA 100	NURAY 100	SECURITY 100	OMNIS 100	VITREA M 100	VACTRA EXTRA HEAVY	CRUCOLAN 100
D	MEDIUM GEAR OIL	ENERGOL GR-XP 150	ALPHA SP 150	SPARTAN EP 150	EP LUBE HD 150	MEROPA 150	OMALA 150	MOBILGEAR 629	KLUBEROIL GEM 1-150
E	HEAVY GEAR OIL	ENERGOL GR-XP 320	ALPHA SP 320	SPARTAN EP 320	EP LUBE HD 320	MEROPA 320	OMALA 320	MOBILGEAR 632	KLUBEROIL GEM 1-320
F	GENERAL PURPOSE GREASE	ENERGREASE LS 2	SPHEEROL MP 2	BEACON 2	GULFCROWN GREASE No. 2	MULTIFAX AFB 2	ALVANIA R 2	MOBILUX EP 2	CENTOPLEX 2
G	OPEN GEAR GREASE	ENERGREASE OG	IMPERVIA MDX	CAZAR K2	LUBCOTE 1	CRATER 2	MALLIUS GL 95	MOBITAC 81	GRAFLOSCON GSG ULTRA
H	HYD/OIL & AIR MIST LUBRICATORS	ENERGOL HLP 32	HYSPIN VG 32	* NUTO H 32	* HYDRASIL 32	* REGAL R & O 32	TELLUS R 37	DTE LIGHT	CRUCOLAN 32
K	WHITE OIL (FOOD USE)	ENERGOL WM 2	WHITEMOR WOM 14	MACOL 82	NO GRADE	WHITE OIL SPECIAL 15	ONDINA EL	WHITEREX 408	PARALIQ P 40
P	SLIDEWAY OIL	MACCURAT D 68	MAGNA BD 68	FEBIS K 68	SLIDEWAY 68	WAYLUBE X 68	TONNA TX 68	VACTRA No. 2	LAMORA D 68
S	GREASE (SOFT)	ENERGREASE CA	IMPERVIA TR LIGHT	BEACON EP 0	GULFCROWN GREASE No. 0 EP	NOVATEX EP 1	ALVANIA EP (LF) 0	MOBILUX EP0	CENTOPLEX 1 DL
T	GREASE (MEDIUM)	ENERGREASE LS 3	SPHEEROL MP3	BEACON 3	GULFCROWN GREASE No. 3	MULTIFAK PREMIUM 3	ALVANIA R3	MOBILUX EP 3	CENTOPLEX 3

Issue	Date	Approved
5	4.86	G Rance
6	10.97	

*** NOTE:-**

ESSO NUTO H 32, GULF HYDRASIL 32 & TEXACO REGAL R & O 32 products are advised as suitable for silver plated components present in some Lucas and Vickers Hydraulic Pumps. Any customer wishing to use any of these grades should obtain assurances from these companies before using them.