



**Worm Gear Reducer
Lubrication Information**

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FORM
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⚠ WARNING

- Read and follow all instructions carefully.
- Disconnect and lock-out power before installation and maintenance. Working on or near energized equipment can result in severe injury or death.
- Do not operate equipment without guards in place. Exposed equipment can result in severe injury or death.

⚠ CAUTION

- Periodic inspections should be performed. Failure to perform proper maintenance can result in premature product failure and personal injury.

This Lubrication Bulletin is for Morse Standard Product Line Worm Gear Reducers only. For lubrication information regarding other reducers consult the appropriate lubrication bulletin.

USE ONLY WORM GEAR OIL IN WORM GEAR REDUCERS.

Normal operating temperature of a worm gear reducer is less than 200° F but during initial break-in the temperature may exceed 200°F. After break-in is completed the temperature will fall below 200°F. If temperature exceeds 200°F for greater than 100 hours consult factory.

MAINTENANCE SCHEDULE

- 1.) Change initial oil fill after 500 hours service or 5 weeks.
- 2.) Change oil every 2500 hours service or 6 months. If severe operating conditions exist, change the oil every 1 to 3 months.
- 3.) Grease all grease fittings every 1000 hours of operation with 1 -2 ounces of grease meeting NLGI #2 standards.

ADDITIONAL LUBRICATION NOTES:

- 1.) 90 WEIGHT OIL AND EP OILS ARE NOT RECOMMENDED.
- 2.) For ambient temperatures -40°F to 15°F use Mobil SHC634 or equivalent.
- 3.) Units running at slow speeds (less than 100 RPM input) should carry extra high oil level and in ambient temperatures of 15 to 125° F. use an AGMA # 8C lubricant.
- 4.) "RW" reducers use a dipstick to measure oil level, all other units have an oil level pipe plug.
- 5.) On double reduction units check the oil level in both housings. On some configurations the lower housing must be completely full and the upper housing filled to normal oil level.
- 6.) Most units are shipped with vent plug installed in proper position based on mounting position ordered. If vent plug is not installed in unit it will be included in the packing. Install the vent plug in the topmost pipe plug position.

See page two for reducer oil capacities.

Any other make of oil meeting American Gear Manufacturers Association (AGMA) standards #7C & #8C will be satisfactory. Consult factory if you have any questions.

Table 1: Worm Gear Oil Recommendation

	Ambient Temp. 15 to 60° F	Ambient Temp. 50 to 125° F
Viscosity Range MM/S at 40° C	414-506	612-748
ISO Grade	460	680
AMGA #	AGMA # 7C	AGMA # 8C

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Table 2: Oil Capacities Chart - USA Measure - Approximate Quantities - Fill to Oil Level

10WB	1/4 PT	21LB	1 PT	30V	1 3/4 QTS	40GDSA &	4 1/4 QTS	Inverted	3 1/4 GALS
10WT	1/4 PT	21LDB	1 1/4 PTS	30VX STD	3 QTS	GDSF	-	60GCT	2 3/4 GALS
10WV	1/4 PT	21LDV	1 PT	inverted	2 QTS	40GSA&GSF	3 1/2 QTS	60GCV	2 3/4 GALS
13GCDB	3/4 PT	21LT	3/4 PT	30WDB	2 1/2 QTS	-	-	LowBase	2 3/4 GALS
13GCDV	3/4 PT	21LV	3/4 PT	30WDV	2 1/4 QTS	40RWB	3 1/2 QTS	60GDSA &	2 3/4 GALS
13GCT	1/2 PT	25DSA&DSF	3 1/4 PTS	35DSA&DSF	2 3/4 QTS	40RWT	3 1/2 QTS	GDSF	-
13GCV	1/2 PT	25DV	1 1/4 QTS	35DV	2 3/4 QTS	40RWV	3 QTS	60GSA&GSF	2 3/4 GALS
LowBase	1/2 PT	25GCDB	3 1/4 PTS	35DVX STD	4 1/2 QTS	40SA&SF	3 1/2 QTS	60RWB	2 3/4 GALS
13WB	1/2 PT	25GCDV	1 1/4 QTS	Inverted	4 QTS	40V	3 1/2 QTS	60RWT	3 GALS
13WT	1/2 PT	25GCT	1 1/4 QTS	35GCDB	3 3/4 QTS	40VX STD	1 1/4 GALS	60RWV	2 1/2 GALS
13WV	1/2 PT	25GCV	1 1/2 QTS	35GCDV	2 3/4 QTS	Inverted	1 GAL	60SA&SF	2 3/4 GALS
16LDB	3/4 PT	LowBase	1 1/2 QTS	35GCDVX	-	40WDB	3 3/4 QTS	60V	2 1/2 GALS
17LB	1/4 PT	25GDSA &	3 1/4 PTS	STD	4 1/2 QTS	40WDV	3 1/4 QTS	60VX STD	3 3/4 GALS
17LT	1/4 PT	GDSF	-	Inverted	4 QTS	50DSA&DSF	2 1/4 GALS	Inverted	2 3/4 GALS
17LV	1/4 PT	25GSA&GSF	1 1/4 QTS	35GCT	3 QTS	50DV	1 3/4 GALS	60WDB	3 3/4 GALS
18DSA&DSF	1 PT	25RWB	2 1/2 PTS	35GCV	3 3/4 QTS	50DVX STD	2 1/4 GALS	60WDV	3 1/2 GALS
18GCDB	1 PT	25RWT	2 1/2 PTS	LowBase	3 3/4 QTS	Inverted	2 GALS	70DV	4 1/2 GALS
18GCDV	1 PT	25RWV	2 1/4 PTS	35GDSA &	2 3/4 QTS	50GCDB	2 1/4 GALS	70DVX STD	7 GALS
18GCT	3/4 PT	25SA&SF	1 1/4 QTS	GDSF		50GCDV	1 3/4 GALS	Inverted	5 1/2 GALS
18GCV	1 PT	25V	1 QT	35GSA&GSF	3 QTS	50GCDVX	-	70RWB	5 3/4 GALS
LowBase	1PT	25WDB	3 1/4 PTS	35RWB	3 1/4 QTS	STD	2 1/4 GALS	70RWT	5 3/4 GALS
18GDSA &	1 PT	25WDV	3 PTS	35RWT	3 1/2 QTS	Inverted	2 GALS	70RWV	4 1/2 GALS
GDSF	-	26LB	1 1/2 PTS	35RWV	2 1/2 QTS	50GCT	1 3/4 GALS	70V	4 GALS
18GSA&GSF	3/4 PT	26LDB	1 3/4 PTS	35SA&SF	3 QTS	50GCV	1 1/2 GALS	70VX STD	6 GALS
18SA&SF	3/4 PT	26LDV	1 1/2 PTS	35V	2 1/4 QTS	LowBase	1 1/2 GALS	Inverted	5 GALS
18V	1 PT	26LT	1 1/2 PTS	35VX STD	4 1/4 QTS	50GDSA &	2 1/4 GALS	70WDB	7 GALS
18WB	1 PT	26LV	1 1/4 PTS	Inverted	3 3/4 QTS	GDSF	-	70WDV	6 1/4 GALS
18WT	3/4 PT	30DSA&DSF	2 1/2 QTS	35WDB	3 3/4 QTS	50GSA&GSF	1 3/4 GALS	80RWB	7 1/2 GALS
18WV	1 PT	30DV	2 1/2 QTS	35WDV	3 QTS	50RWB	1 3/4 GALS	80RWT	7 1/2 GALS
20DSA&DSF	1 QT	30DVX STD	3 3/4 QTS	37LB	1 1/2 QTS	50RWT	1 3/4 GALS	80RWV	6 1/2 GALS
20DV	1 QT	Inverted	2 3/4 QTS	37LDB	2 QTS	50RWV	1 1/2 GALS	80WDB	10 GALS
20GCDB	1 QT	30GCDB	2 1/2 QTS	37LDV	2 QTS	50SA&SF	1 3/4 GALS	80WDV	9 GALS
20GCDV	1 QT	30GCDV	2 1/2 QTS	37LT	1 1/2 QTS	50V	1 1/2 GALS	90DVX	12 1/2 GALS
20GCT	1 1/2 PTS	30GCDVX STD	3 3/4 QTS	37LV	1 1/4 QTS	50VX STD	2 GALS	90VX	11 GALS
20GCV	1 QT	Inverted	2 3/4 QTS	40DSA&DSF	4 1/4 QTS	Inverted	1 3/4 GALS	100RWB	15 1/2 GALS
LowBase	1 QT	30GCT	2 QTS	40DV	4 1/4 QTS	50WDB	2 1/4 GALS	100RWT	11 1/2 GALS
20GDSA	1 QT	30GCV	2 1/2 QTS	40DVX STD	1 1/2 GALS	50WDV	2 GALS	100RWV	10 GALS
20GSA&GSF	1 1/2 PTS	LowBase	2 1/2 QTS	Inverted	1 1/4 GALS	60DSA&DSF	3 3/4 GALS	100WDB	19 GALS
20SA&SF	1 1/2 PTS	30GDSA &	2 1/2 QTS	40GCDB	3 3/4 QTS	60DV	2 3/4 GALS	100WDV	12 1/2 GALS
20V	1 1/2 PTS	GDSF	-	40GCDV	4 1/4 QTS	60DVX STD	4 1/4 GALS	110DVX	18 1/2 GALS
20WB	1 3/4 PTS	30GSA&GSF	2 QTS	40GCDVX STD	1 1/2 GALS	Inverted	3 1/4 GALS	110VX	22 GALS
20WDB	2 PTS	30RWB	3 3/4 PTS	Inverted	1 1/4 GALS	60GCDB	3 3/4 GALS	-	-
20WDV	1 3/4 PTS	30RWT	3 3/4 PTS	40GCT	3 1/2 QTS	60GCDV	2 3/4 GALS	-	-
20WT	1 1/2 PTS	30RWV	3 1/4 PTS	40GCV	3 1/2 QTS	60GCDVX	-	-	-
20WV	1 1/2 PTS	30SA&SF	2 QTS	LowBase	3 1/2 QTS	STD	4 1/4 GALS	-	-

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