

CASE STUDY

INDUSTRY: TILE MANUFACTURING

PROCESS: BODY PREPARATION

APPLICATION: HYDRAULIC PRESS

LUBRICATION: HYSPIN AWS 46 HYDRAULIC OIL

EVALUATION BEFORE CASTROL:

1. <u>Lubricant used</u> –Company "M" ATF oil

Total oil capacity 1,990 gallons @ body prep

Total amount of oil used one year prior to Castrol with changeover every 6 month

1990 gal x 2 changeover per year = 3,980 gal per one year

3,980 gal x \$4.97 per gal = \$19,781 oil cost per one year

2. Make-up Oil (10% of total volume)

398 gal. x \$4.97 per gal. = \$1,978 per year

3. Oil Analysis

Four (4) samples taken every year per unit. 8 hyd units x 4 x \$55 each = \$1,760 per year

4. Waste Oil Disposal

3,980 gal x 40 cents per gal = \$1,592 per year

5. Oil change labor

2 times per year x 4 man-hours per change x 8 units = 64 hours 64 hours x \$30 per hr = \$1,920 per year

EVALUATION AFTER CASTROL:

1. **Lubricant used** – Hyspin AWS 46

Total oil capacity 1,990 gallons @ body prep
Total amount of oil used in one year after Castrol with changeover every year.
1990 gal x 1 changeover per year = 1990 gal per year
1990 gal x \$6.81 per gal = \$13,552 oil cost per year

2. Make-up Oil (10% of total volume)

199 gal. x \$6.81 per gal. = \$1,355 per year

3. Oil Analysis

No charge for oil analysis.

4. Waste Oil Disposal

 $\overline{1,990}$ gal x 40 cents per gal = \$796 per year

5. Oil change labor

1 time per year x 4 man-hours per change x 8 units = 32 hours 32 hours x \$30 per hr = \$960 per year

1 YEAR SAVINGS EVALUATION

	Product Used	Before CASTROL	Castrol Hyspin AWS
1	Total Volume Used	3,980 gal.	1990 gal.
2	Total Product Cost	\$19,781	\$13,552
3	Changing Frequency	6 month	12 month +
4	Make-Up Cost	\$1,978	\$1,355
5	Oil Analysis Cost	\$1,760 not included	0
6	Oil Waste Cost	\$1,592	\$796
7	Oil Change Labor	\$1,920	\$960
	Total Maintenance Cost	\$25,271	\$16,663
	TOTAL SAVINGS	-	\$8,608

SAVINGS:

• Total savings per 1 year - \$8,608

(oil analysis cost is not included)

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Study verified by: Maintenance Technicians

(Tile manufacturing company)