



CASE STUDY

INDUSTRY: CEMENT (Cement Plant in Texas)

EQUIPMENT: MOBIL EQUIPMENT, CAT 768C TRUCKS

APPLICATION: HYDRAULIC SYSTEMS

LUBRICATION: HYPIN AWH-32 (replaced SAE 10W oil)

EVALUATION BEFORE CASTROL:

- Annual lubricant consumption – 7560 gal.
14 CAT 768C , 2 month (450hrs.) oil change interval, 90 gal. Per truck.
 $12 \text{ month} : 2 \text{ month} = 6.0 \quad 14 \times 6.0 \times 90 = 7560 \text{ gal per year}$
- Annual lubricant cost – \$25,628
(7560 gal x \$3.39 per gal. = \$25,628)
- Man-hours devoted annually for oil change – 84 hrs.
(1 man-hours per truck x 14 x 6 = 84 hrs. per year)
- Annual replacement parts cost -\$4,000
(seals, hoses, pumps, cooling system components)

EVALUATION AFTER CASTROL:

- Annual lubricant consumption – 1915 gal.
14 CAT 768C , 6 month (15000hrs.) oil change interval, 90 gal. Per truck.
 $12 \text{ month} : 6 \text{ month} = 2.0 \quad 14 \times 2.0 \times 90 = 2520 \text{ gal per year}$
- Annual lubricant cost – \$15,600
(2520 gal x \$6.19 per gal. = \$15,600)
- Man-hours devoted annually for oil change – 14 hrs.
(0.5 man-hours per truck x 14 x 2.0 = 14 hrs. per year.)
- Annual replacement parts cost -\$2,000
(seals, hoses, pumps, cooling system components)



SAVINGS:

- Annual lubricant consumption reduction - 74%
- Annual lubricant cost savings - \$10,028
- Annual labor cost savings - \$2,400 (at \$30 per hr.)
- Annual savings of replacement parts cost - \$2,000
- Total annual savings - \$14,428
- Total savings over 3 year partnership with Castrol - \$43,284

Study compiled and prepared by Yefim Lev, Castrol Application Engineer

Study verified by:

signed by *James Mobley*

James Mobley- Maintenance Lead Man
(Cement Plant in Texas)

signed by *Leon Billalba*

Leon Billalba – Mobil Equipment Tech.
(Cement Plant in Texas)