

6110 MONOLEC[®] HYDRAULIC OIL

NEW YORK WIRE CO, Walterboro, SC

Hydraulic Systems • SIC 2299 Textile Goods

CUSTOMER TESTIMONIAL

- ⇒ **Safely extended drain intervals to five years!**
- ⇒ **\$5,000 annual savings in torque motors**
- ⇒ **Reduced make-up oil by 75%**
- ⇒ **Eliminated sludge and grit in hydraulic reservoirs**

CUSTOMER PROFILE

New York Wire Co has been in business for over 30 years, specializing in the manufacturing and distribution of fiberglass screen. Their facility in Walterboro, SC manufactures this fiberglass screen for many uses, but primarily for the building industry. The uses for their screen include, roofing materials, window screen, backing for molding, and concrete reinforcing. They service a nationwide customer base and have been an LE customer for 30 years.



Fiberglass mat being wound on rolls.

APPLICATION

New York Wire has six hydraulic systems containing a total of 360 gallons of hydraulic oil. These systems utilize two torque motors manufactured by either Ross or White.



Hydraulic pump, electric motor and reservoir filled with 6110 MONOLEC Hydraulic Oil.

AREA OF INTEREST

While using a commercial grade hydraulic oil, the hydraulic system required an oil change every year and included pump rebuilds annually. The two torque motors manufactured by either Ross or White are used to keep the woven screen tight while it is rolled to their customer's specifications. It is critical that 1,100 PSI be maintained by the pump to keep the tension. These torque motors would last anywhere from two weeks to eight weeks at a cost of \$700.00 each. During the yearly changes, Maintenance Personnel noticed that the oil reservoirs were extremely dirty. Sludge and gritty material had to be manually cleaned before putting in a new fill of oil. Oil filters had to be changed every six months.

LE SOLUTION

LE Lubrication Consultant Helmut von Schweinitz recommended that New York Wire convert to LE's 6110 MONOLEC Hydraulic Oil. Helmut explained that they could extend the oil drain intervals, reduce the oil leakage, and extend

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the pump life, while keeping the hydraulic system clean and free of the sludge and gritty material they had previously experienced with the commercial grade hydraulic oil. The goal was to extend their drain intervals to three years.

CUSTOMER COST SAVINGS

The first unit was converted in July 1992. New York Wire monitored the system for one year and the first thing they noticed was that the pump noise was greatly reduced. The oil was found to be in excellent condition, the oil reservoir was clean and the oil filter inspections showed little or no dirt or deposits. Because of these results, five other systems were converted to LE 6110 MONOLEC Hydraulic Oil. Now after fifteen years, they lost only one hydraulic pump. Their torque motors are no longer failing as well, in fact the only torque motor that failed during this time was due to the shaft being sheared from the load. Today, they have 360 gallons of oil running 24 hours per day,

six to seven days per week. In 1999 only two six gallon containers of 6110 were needed for makeup oil and oil change intervals were extended to five years. It is estimated this has saved the customer thousands of dollars in oil costs and disposal costs per year not to mention the savings in maintenance costs and reduced equipment downtime.


OTHER PRODUCTS USED

In addition to 6110, New York Wire uses a variety of other LE products in several other plant operations, including:

- 452 ALMASOL® Chain & Cable Lubricant
- 1603 DUOLEC™ Vari-Purpose Gear Lubricant
- 1250 ALMASOL® High Temperature Lubricant
- 1275 ALMAPLEX® Industrial Lubricant
- 6806 MULTILEC® Industrial Oil
- 9200 ALMASOL® Dry Film Lubricant

We would like to thank the personnel at New York Wire and LE Lubrication Consultant Helmut von Schweinitz (pictured) for the information provided in this report.



UNIT NO #4 BATCHER				LEAP LUBRICATION ENGINEERS, Inc. Analysis Program P.O. Box 7128 Fort Worth, Texas 76111 (817) 834-6321		SEVERITY STATUS:																							
CUSTOMER						LUBRICATION ENGINEERS																							
LOCATION , REP 285																													
UNIT TYPE H																													
APPLICATION HYDRAULIC PISTON PUMP																													
MFR				Cust.# 46007		Rep.# 44696																							
MFRTYPE				Lab # 35608		REPORT DATE 04/02/01																							
OIL MFR LE 6110																													
OIL GRADE ISO 46																													
SAMPLE DATE 03/21/01																													
C O M M E N T	ANALYSES INDICATE NORMAL CONDITION. RESAMPLE AT NORMAL INTERVAL.																												
	VALUES EXPRESSED IN PARTS PER MILLION (PPM) BY WEIGHT																												
	Test Data		WEAR METALS						NON METALLIC CONTAMINANTS		LUBE FLUID DATA																		
	DATE	TIME	IRON	CHROMIUM	MOLYBDENUM	ALUMINUM	COPPER	LEAD	TIN	SILVER	NICKEL	VANADIUM	TITANIUM	SILICON	SODIUM	POTASSIUM	BORON	MAGNESIUM	CALCIUM	BARIUM	PHOSPHORUS	ZINC	FUEL	FUELS	WATER	VIS	VIS	TAN	TBN
	SAMP	FLUID																					%VOL	%VOL	%VOL	40 C	100 C	TOTAL ACID NO.	TOTAL BASE NO.
	REC'D	UNIT																											
	0321	4.6YRS	18	0	0	0	5	2	0	0	0	0	0	1	0	0	1	8	54	0	461	554	N/A		0	46.6	N/A		
	0402																												
	0924	3 YRS	22	0	0	0	4	0	0	0	0	0	0	2	0	0	0	1	59	0	518	717	N/A		0	47.0	N/A		
	1004																												

Based on actual user experience. Individual results may vary. Product used not intended to supersede manufacturer's specifications.