

6110 MONOLEC® HYDRAULIC OIL

Clayton County Water Authority-Casey Plant, Jonesboro, GA

Turblex Blowers • SIC 9511 Air, Water, and Resource Management

"Longer service life, better water separation, and longer component life."

CUSTOMER PROFILE

Clayton County Water Authority's Casey Plant is a newly redesigned, state of the art facility with a capacity of 24 million gallons per day. They have been an LE customer for over 25 years.

APPLICATION

The Casey Plant utilizes three Turblex KA10SV-6L210, 500 HP, 8300 scfm, 10.5 psig aeration blowers.

AREA OF INTEREST

Using a major brand oil, sight glasses were hard to see. The customer also wanted to ensure the oil was clean, through proper filtration if necessary. They were looking to use the most advanced oil available to protect their three \$750,000 investments.

LE SOLUTION

Lubrication Consultant Blake Yates recommended 6110 MONOLEC® Hydraulic Oil, which is listed by Turblex as an approved lubricant. Due to its distinctive red color, sight glass levels are now easier to see.

CUSTOMER COST SAVINGS

Rebuilds on Turblex blowers exceed \$50,000. Extension of component life is



a must; LE's 6110, LEAP (Lubrication Engineers Analysis Program) and LE support is helping to obtain this goal. LEAP is also used to monitor the particle count to ensure the oil is clean and free of contamination.

OTHER PRODUCTS USED

1275 ALMAPLEX® Industrial Lubricant is used in all bearings.

6801 MULTILEC® Industrial Oil is used in a U.S. Motor Titan II 500 hp horizontal motor.

6803 MULTILEC® Industrial Oil is used in a Smith & Loveless Pista-Grit main gear drive.

6806 MULTILEC® Industrial Oil is used in Smith & Loveless Pista-Grit motor reducer.

9220 MONOLEC Synthetic Industrial Oil is used in all gearboxes calling for an ISO 220.

9460 MONOLEC Synthetic Industrial Oil and 9846 SYNOLEC Gear Lubricant are used in the clarifiers.



Lubrication Engineers would like to thank Mike Bohannon and David Blackstock with the Casey Plant and Lubrication Consultant Blake Yates for providing the information to prepare this report.

Blake Yates

COMMENT Data indicates no abnormal findings. Resample at normal interval;

FLUID ANALYSIS REPORT - 817-834-6321																											
WEAR METALS											CONTAMINANT METALS			MULTI-SOURCE METALS					ADDITIVE METALS								
Fe	Cr	Ni	Al	Cu	Pb	Sn	Cd	Ag	Ti	V	Si	Na	K	Mo	Sb	Mn	Li	B	Mg	Ca	Ba	P	Zn				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91	2	445	498				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	0	434	531				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	0	461	575				
TEST DATA		L C U H B A E N G E D	F U E L	S O O T	W A T E R	V I S	V I S	T A N	T B N	I-R	I-R	I S O	C O D E	4	6	10	14	21	38	70	100						
DATE	LUBE UNIT																					Vol.	Vol.	Vol.	40C CS	100C CS	Total Acid
01/12/2006	400	N			0.00	47.10		0.46				17	15	13		993	162	80	47	20	4	1	0				
01/17/2006	6157																										
06/30/2006		N			0.00	46.30		0.57				18	15	13		1310	298	102	46	14	3	1	0				
07/05/2006	6849																										
N/A		U			0.00	46.90		0.48				17	15	11		1004	203	42	19	5	1	0	0				
11/03/2006																											

COMMENT Data indicates no abnormal findings. Resample at normal interval;

FLUID ANALYSIS REPORT - 817-834-6321																											
WEAR METALS											CONTAMINANT METALS			MULTI-SOURCE METALS					ADDITIVE METALS								
Fe	Cr	Ni	Al	Cu	Pb	Sn	Cd	Ag	Ti	V	Si	Na	K	Mo	Sb	Mn	Li	B	Mg	Ca	Ba	P	Zn				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	91	2	458	511				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	0	469	562				
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	0	478	590				
TEST DATA		L C U H B A E N G E D	F U E L	S O O T	W A T E R	V I S	V I S	T A N	T B N	I-R	I-R	I S O	C O D E	4	6	10	14	21	38	70	100						
DATE	LUBE UNIT																					Vol.	Vol.	Vol.	40C CS	100C CS	Total Acid
01/12/2006	250	N			0.00	47.10		0.54				15	14	12		269	104	44	23	9	1	0	0				
01/17/2006	6753																										
06/30/2006		N			0.00	46.70		0.58				18	17	14		2318	768	294	145	53	9	1	0				
07/05/2006	10443											AAA			AAA	AAA											
N/A		U			0.00	46.70		0.54				17	15	12		882	277	71	34	12	2	0	0				
11/03/2006																											

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