

CUSTOMER REPORT FOR YORK CHILLER OIL ANALYSIS

The report each District provides to its customers will be based on the type of Oil Analysis performed. A comprehensive analysis report format would appear incomplete if used as a standardized report format for less comprehensive analysis methods.

Examples of the test data reports from the four laboratories presented in the OVERVIEW follow. It may be desirable to work up a customized report format based on the type of analysis your District conducts. The laboratory's test data report may or may not be included at District discretion.

The original background information collected at the time of the sampling should be included in the report. Key data include:

- Customer Name
- Customer Address, City, State, Zip
- Persons to Notify (2)
- Date of last Oil Change
- Date of Last Filter Change
- Hours of Operation since last oil change
- Chiller Manufacturer, including Model Number, Shells,  
and Compressor
- Unit Serial Number
- Oil Grade and Brand
- Oil Additives
- Key operating conditions
- Known Service History
- Additional Comments

The next two pages present an example of both a suggested Cover Letter and a Summary Sheet for the YORK Customer Report

OIL ANALYSIS RESULTS  
YORK INTERNATIONAL CORPORATION

PREPARED FOR:

CUSTOMER ADDRESS:

MACHINE NUMBER:

\_\_\_\_\_  
YORK DISTRICT SERVICE OFFICE REPRESENTATIVE

\_\_\_\_\_  
DATE

OIL ANALYSIS RESULTS  
YORK INTERNATIONAL CORPORATION

FINDINGS:

RECOMMENDED ACTION:

SUGGESTED DATE FOR NEXT SAMPLING:

YORK DISTRICT SERVICE OFFICE REPRESENTATIVE

DATE

YORK CHEMICAL AND METALLURGICAL LABORATORY

YORK INTERNATIONAL CORPORATION

OIL ANALYSIS RESULTS

TO: Dean Selhay - AS Los Angeles DATE: 01/06/88

INSTALLATION: Exxon JOB #: 225 Hillcrest Dr., Thousand Oaks, CA.

SYSTEM MODEL: LCH40W46PBHR, #3 COMPR.MODEL: SS82BL46S S/N: LM-073405  
Heat Recovery Unit

OIL TYPE: York C DATE OF LAST OIL CHANGE: 09/86

REFRIGERANT TYPE: R-22 DATE OF LAST OIL FILTER CHANGE: N/A

SERVICE HISTORY: None given.

**SAMPLE**

	<u>ANALYSIS RESULTS</u>	<u>MAXIMUM LIMITS</u>	<u>TYPICAL NEW OIL</u>
APPEARANCE -----	Amber, clear	N/A	Lt.amber,clear
COLOR, GARDNER SCALE ----	9	14	4
MOISTURE CONTENT, ppm ---	13	100	< 25
TOTAL ACID NUMBER (TAN) -	0.01	0.12	0.01
SEDIMENT -----	None	N/A	None
OTHER -----			

COMMENTS AND RECOMMENDATIONS:

This oil's color, moisture content, and TAN all are below permissible maxima. OIL IS IN SATISFACTORY CONDITION. NORMAL CHILLER OPERATION IS INDICATED.

Steven W. Waltmi  
CHEMIST: S. W. Waltmi

YORK INTERNATIONAL AIR COND.  
 ATTN: DEAN KEEPORTS-FIELD SERV.  
 BLDG 501C P.O. BOX 1592  
 YORK, PA 17405



ANALYSTS INC. OF NEW JERSEY  
 61 SUTTONS LANE  
 P.O. BOX 181  
 PISCATAWAY, NEW JERSEY 08854  
 (201)985-8282  
 TELEX 258041

FORM 50.40-CR11.0 (688) page 1  
 CUSTOMER NO. : #637814-14  
 UNIT REF. NO. : 13048  
 SENDER NAME : YORK INTERNATIONAL AIR  
 UNIT IDENT. : YORK DARK SAMPLE  
 MAKE/MODEL : YK  
 YORK C  
 REPORT DATE : 13Nov'87

**MAINTENANCE RECOMMENDATIONS FOR LAB NO. 8624**

TESTS INDICATE UNIT AND OIL ARE IN SATISFACTORY CONDITION  
 OIL IS SUITABLE FOR USE  
 RESAMPLE AT NORMAL INTERVAL  
 PLEASE PROVIDE TIME SINCE LAST DRAIN OR SYSTEM SERVICE

REFRIG. COMPRESSOR

PARTS PER MILLION BY WEIGHT															SPECTROCHEMICAL ANALYSIS										OPERATING DATA		
IRON	LEAD	COPPER	CHROMIUM	ALUMINUM	NICKEL	SILICON	BORON	SODIUM	PHOSPHORUS	ZINC	CALCIUM	BARIUM	MAGNESIUM	TITANIUM	MANGANESE	POTASSIUM	ANTIMONY	ML/HR UNIT	ML/HR OIL	OIL ADG GALS							
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							

**SAMPLE**

**PHYSICAL PROPERTIES TESTS**

SAMPLE DRAWN	KF	V CS	TAM
UNKN---	30.	49.2	0.01

FOR LEGEND AND EXPLANATION OF PHYSICAL PROPERTIES TESTS PLEASE SEE REVERSE SIDE

RELINED FIGURES INDICATE ABNORMAL VALUES. MAINTENANCE THAT MAY BE REQUIRED IS INDICATED ABOVE  
 MAINTENANCE RECOMMENDATIONS AND SHOULD BE PERFORMED BY A QUALIFIED MECHANIC. PLEASE ADVISE  
 IF ANY MAINTENANCE PERFORMED ON THIS UNIT. N/R = TEST NOT PERFORMED  
 ACCURACY OF RECOMMENDATIONS IS DEPENDENT ON REPRESENTATIVE OIL SAMPLE AND COMPLETE. CORRECT DATA  
 BOTH UNIT AND OIL THIS REPORT IS NOT AN ENCOURSEMENT OR RECOMMENDATION OF ANY PRODUCT OR  
 ITEM ORIGINAL REPORT MAINTAINED IN ANALYSTS INC DATA FILES

TAI  
 FILE COPY  
 INTERNATIONAL CORP  
 DEPT 7 HD 0

**TAI** SERVICES INC.  
 PO BOX 1182 • ATLANTA GA 30201  
 (404) 448-5235 TELEX 708405  
 OUT-OF-STATE 1-800-241-6315

FORM 50.40-CR11.0

CUSTOMER NO. 370001  
 UNIT NO. YFSM151277  
 MAKE & MODEL YTH126  
 COMPONENT COMPRESSOR  
 COMP MFG YORK YTH126  
 COMP LOC SUMP  
 TYPE SAE OIL YORK C

UNIT WORK SITE YORK INTL-WASHINGTON ADV HOSP2

MAINTENANCE RECOMMENDATIONS

7/87: ANALYSIS INDICATES ABNORMAL LUBRICANT CONTAMINATION AND ABNORMAL COMPONENT CONDITIONS. TOTAL ACID NUMBER IS HIGH. SPECIAL RESULTS ARE CODED FOR MONITORING PURPOSES ONLY. CHANGE OIL AND FILTER IF NOT DONE AT TIME OF SAMPLING. SAMPLE AT NORMAL

**SAMPLE**

CAG	PHYSICAL DATA		METAL CONCENTRATIONS IN PARTS PER MILLION BY WEIGHT															
	SOLIDS & TOXIC		SILICON (PPM)	IRON	CHROMIUM	ALUMINUM	COPPER	LEAD	TIN	NICKEL	SILVER	MOLY	MAGNESIUM	SODIUM	BORON	BARIUM	PHOSPHORUS	
B	0.1		0	54 B	1	2	2	1	0	0	0	0	1	1	0	0	0	

SAMPLE INFORMATION			ADDITIONAL PHYSICAL DATA		
DATE	TIME	OIL ADDED	VIC	TAN	WKF
21/87	0	0	5.07	0.12	30.00
27/87	0				

**SAMPLE**