



Customer	XYZ COMPANY 3874 Main Street Suites 1234 Anytown, USA 12345	Customer Number	1063
		Unit Number	38866
		Make & Model	CARRIER 19DK
		Component	COMPRESSOR/CENTRIFUGAL
		Type/SAE Oil	CARRIER
Location	BHM REHAB #2 GERMANTOWN TN		

Analysis Recommendations



Sample: 151277 **Tag #: 16769**

Drawn: 09/29/2001 Report: 10/18/2001

MH/MR Unit: Add:0

NOTE: WATER LEVEL IS ELEVATED. COPPER AND TIN LEVELS APPEAR TO BE HIGH. RECOMMEND CHANGE OIL IF NOT DONE AT TIME OF SAMPLING. RECOMMEND INSPECTION OF TUBE BUNDLE AND BEARINGS.



Sample: 73753 **Tag #: 14247**

Drawn: 03/31/2000 Report: 04/07/2000

MH/MR Unit: Add:

TRACE LEVEL OF WATER DETECTED. NOTE: COPPER LEVEL APPEARS TO BE HIGH. RECOMMEND CHANGE OIL. RECOMMEND RESAMPLE AT NORMAL INTERVAL.



Sample: 53622 **Tag #: 14247**

Drawn: 12/20/1996 Report: 01/06/1997

MH/MR Unit: N/G Add:

SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. COPPER IS MOST LIKELY FROM TUBE BUNDLE. POSSIBLE THINNING OF TUBE WALL. OIL WAS CHANGED. NO ACTION AT THIS TIME. RECOMMEND RESAMPLE AT HALF INTERVAL. JOB# 063A00620.



Metal Concentrations in Parts per Million by Weight

Test #	Sample #	Solids	Silicon	Iron	Chromium	Aluminum	Copper	Lead	Tin	Nickel
1	151277	<.1	1	51	0	0	469	0	166	0
2	73753	<.1	1	25	0	0	312	0	5	0
3	53622	0.1	0	28	0	1	218	1	5	0

Test #	Sample #	Silver	Moly	Magnesium	Sodium	Boron	Barium	Phosphorus	Calcium	Zinc
1	151277	0	1	38	2	1	0	241	20	380
2	73753	0	0	47	1	0	0	212	25	255
3	53622	0	0	1	1	1	1	487	94	393

Sample Information

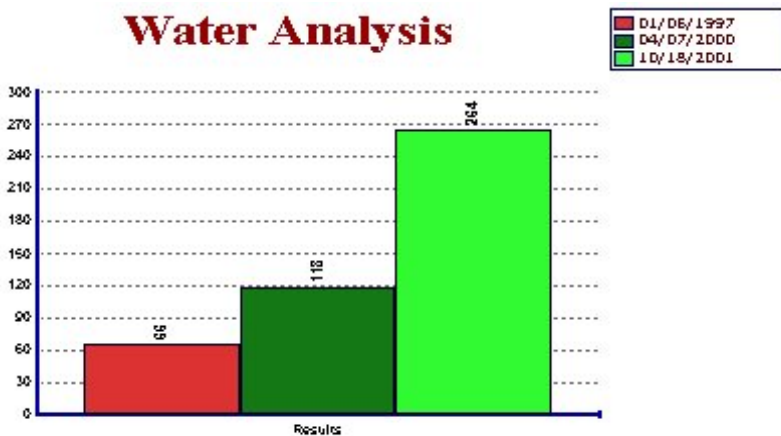
Additional Physical Information

Test #	Sample #	Date Sampled	Report Date	MI/HR	Oil Added	VIC	WKF	TAN
1	151277	09/29/2001	10/18/2001	N/A	0	58	264	0.94
2	73753	03/31/2000	04/07/2000	N/A	N/A	64.0	118	0.37
3	53622	12/20/1996	01/06/1997	N/G	N/A	59.0	66	.38

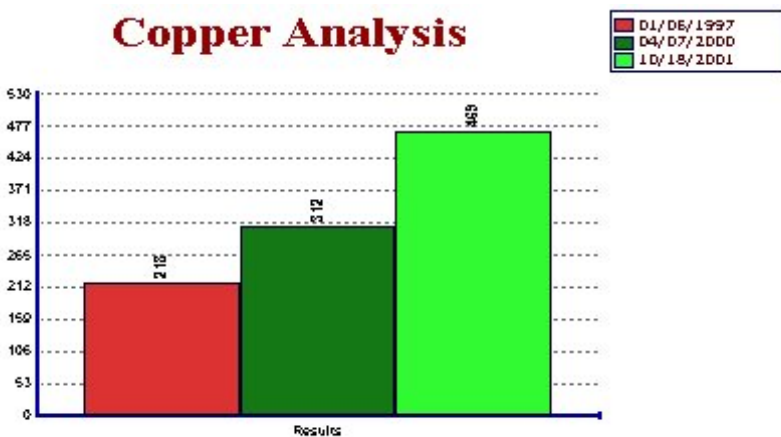
Other Tests

1. Water IR 0
2. Fuel Diss N/A
3. Glycol N/A

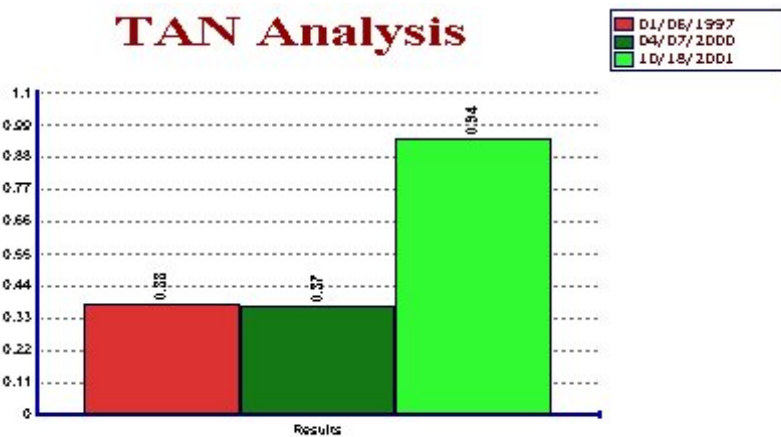
Water Analysis



Copper Analysis



TAN Analysis



EXPLANATION OF ANALYSIS

(TEST RESULTS ARE NORMAL UNLESS SPECIFIED OTHERWISE)

Physical Data	Solids %Volume
----------------------	-----------------------

(Solids as a % Volume: measures the total amount of solid material present in a measured portion of the oil sample. A high solids reading can indicate contamination or lubricant breakdown. Results are reported in percent volume.)

Metal Concentrations in Parts per Million by Weight

Element	Component	Element	Component
Silicon	Sealant/Coolant/Dirt	Moly	Bearings/Assembly Lube
Iron	Shell/Support/Cylinder	Magnesium	Brine/Detergent Additive
Chromium	Crankshaft/CYL/Rings	Sodium	Coolant/Brine
Aluminum	Bearings/Impeller/Pistons	Boron	Coolant/Additive
Copper	Oil Lines/Bearings/Tubes	Barium	Detergent Additive
Lead	Bearings	Phosphorous	Anti-Wear Additive
Tin	Bearings	Calcium	Brine/Detergent Additive
Nickel	Tubes/Crankshaft	Zinc	Anti-Wear/Additive
Silver	Solder/Coolant		

(Metal Concentrations: selected metallic elements present as microscopic particles suspended in the lubricant are identified and measured in parts per million (ppm) by weight. These test results are used to monitor component wear, lubricant contamination, and lubricant additive levels.)

Additional Physical Information

VIC (Viscosity)	Oil Weight
------------------------	-------------------

(Viscosity: the measure of a fluids internal resistance to flow at a given temperature in relation to time. Changes in viscosity can indicate dilution, oxidation, improper servicing, or lubricant breakdown. Results are reported in centistokes (cSt) at 40° C.)

WKF (Water Karl Fisher)	Water Content
--------------------------------	----------------------

(Water, Karl Fischer: the amount of water suspended in a lubricant, measured by Karl Fischer titration in parts per million (ppm) by weight.)

TAN (Total Acid Number)	Oil Acidity
--------------------------------	--------------------

(Total acid number: measures the total amount of acidic product present in a lubricant. Generally, an increase in TAN above that of the new product indicates oil oxidation or contamination with an acidic product.)