



Lubricant Analysis Report

North America: +1-877-808-3750

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: Company Name: Contact: Address: Phone Number:		Component ID: CHILLER 1 Secondary ID: Component Type: CHILLER Manufacturer: Model: Application: Sump Capacity:		Tracking Number: Lab Number: Lab Location: Data Analyst: Sampled: Submitted: Received: Completed:	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: Micron Rating:				Product Manufacturer: Product Name: Viscosity Grade:	
Comments	Check for source of water contamination (SEALS, BREATHERS, FILL PORTS). Water is at a SIGNIFICANT LEVEL. LUBRICANT and FILTER CHANGE is suggested if not done at sampling time. Particle Count is at a MINOR LEVEL. Note decrease in viscosity. REDUCED VISCOSITY may be caused by lubricant coming into CONTACT WITH FREON or other type of REFRIGERANT. Resample at half interval.				

Sample #	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additive Metals (ppm)				
	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus
NL	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	1	0
33	0	0	0	0	5	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	1	0
34	0	0	0	0	8	0	0	0	0	0	1	0	3	0	0	0	0	0	0	1	0	2	1
35	0	0	0	0	15	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	2	0	1
36	0	0	0	0	8	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	3	0

Sample #	Sample Information							Contaminants			Fluid Properties					
	Date Sampled	Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100 °C	Acid Number	Base No. D4739	Oxidation	Nitration
			h	h		gal		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
NL	27-May-2015	27-May-2015	0	0	Yes	0	No				33.4		0.06		172	4
33	03-Jan-2018	03-Jan-2018	0	72400	No	0	No			<.1 - Hotplate	33.9		0.01			
34	22-Mar-2018	22-Mar-2018	0	0	No	0	No			.01 - mo. 6304C	33.3		0.01			
35	09-May-2018	10-May-2018	0	72810	No	0	No			.03 - mo. 6304C	31.1		0.02			
36	09-Jul-2018	09-Jul-2018	0	73446	No	0	No			.09 - mo. 6304C	25.6		0.01			

Sample #	Particle Count (particles/mL)										Test Method	Water by Karl Fischer - mod. 6304C	Additional Testing	
	ISO Code Based On 4/6/14	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	%				
NL	19/16/14	3307	582	190	84	44	7	3	0	ISO-11500	0.017			
33	19/18/15	4504	1468	381	183	63	6	2	2	ASTM D7647				
34	19/17/14	2507	922	294	135	43	5	0	0	ASTM D7647				
35	21/19/15	18106	4675	886	302	67	2	0	0	ASTM D7647				
36	22/20/16	23504	7090	1135	367	80	3	0	0	ASTM D7647				

