

Machine Id OAKWOOD VILLAGE EAST GRASSLANDS C-1B CIRC 1 (S/N U18C00507)

Refrigeration Compressor

TRANE 0048 (--- GAL)

REC	OM	MFN	IDA	ΓΙΟΝ

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

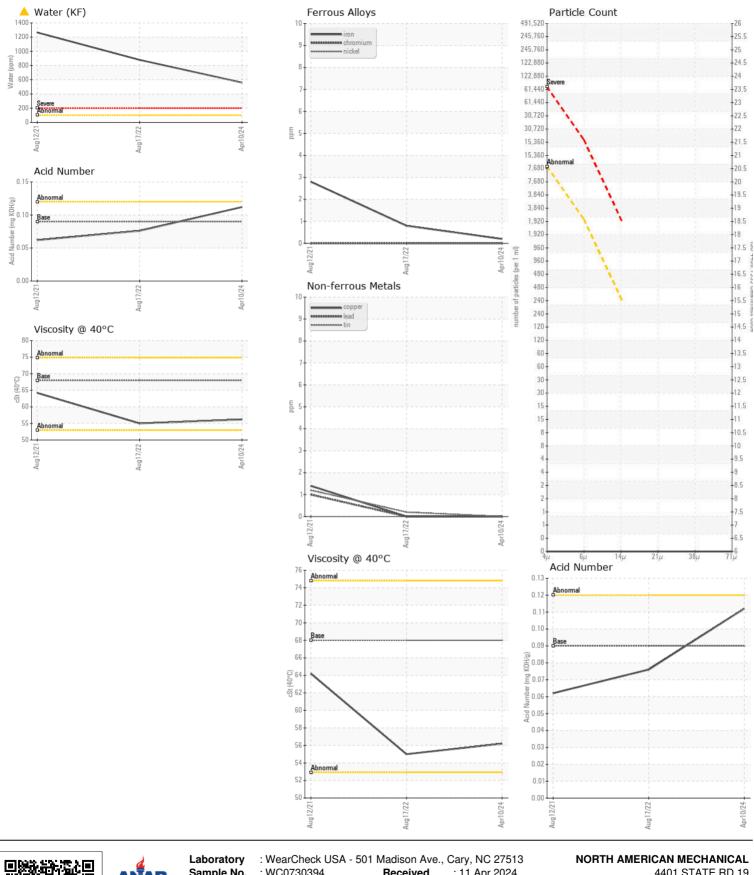
There is a light concentration of water present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

TestUOMMethodLimit/AnCurrentHistory1History2Sample NumberClient InfoWC0730394WC0730372WC0340235Sample DateClient Info10 Apr 202417 Aug 202212 Aug 2021Machine AgehrsClient Info000Oil AgehrsClient Info000Oil ChangedClient InfoN/AN/AN/AFilter AgehrsClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/ASample StatusSample Status-2000NickelppmASTM D5185m-2000NickelppmASTM D5185m-2000SilverppmASTM D5185m-2000AluminumppmASTM D5185m-2001CopperppmASTM D5185m-2001VisualNONENONENONENONENONENONEVisualNDNENONENONENONENONENONENONESiliconppmASTM D5185m-2336PotassiumppmASTM D5185m-2000VisualNONENONENONENONENONENONESiliconppmASTM D5185m-2000PotassiumppmASTM D5185m-20							
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Molybdenum ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Kith UP ASTM D5185m 0 0 0 0 0	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm % ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.01 >100 NONE NONE NORML NORML >0.01	0 0.055 560 NONE NONE NONE NORML NORML NEG 0	0 0.087 879.9 NONE NONE NONE NORML NORML NEG 0	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0
Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 0 Phosphorus ppm ASTM D5185m 5 0 2 4 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 0 0 0 0 Acid Number (AN) mg KOHg ASTM D5185m 0.09 0.112 0.076 0.062	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	 >20 >0.01 >100 NONE NORML >0.01 	0 0.055 560 NONE NONE NORML NORML NEG 0 2	0 0.087 879.9 NONE NONE NORML NORML NEG 0 1	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0 8
Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 5 0 2 4 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 10 0 0 0 Sulfur ppm ASTM D5185m 10 0 10 31 Acid Number (AN) mg KOHg ASTM D974 0.09 0.112 0.076 0.062	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	 >20 >0.01 >100 NONE NONE NORML >0.01 1 0 	0 0.055 560 NONE NONE NORML NORML NEG 0 2 0	0 0.087 879.9 NONE NONE NORML NORML NEG 0 1 <1	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0 8 0
Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 5 0 2 4 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 10 0 0 0 Sulfur ppm ASTM D5185m 10 0 10 31 Acid Number (AN) mg KOHg ASTM D974 0.09 0.112 0.076 0.062	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.01 >100 NONE NONE NORML NORML >0.01	0 0.055 560 NONE NONE NORML NORML NEG 0 2 0 0 0 0	0 0.087 879.9 NONE NONE NORML NORML NEG 0 1 <1 0	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0 8 0 0 0 0
Phosphorus ppm ASTM D5185m 5 0 2 4 Zinc ppm ASTM D5185m 0 0 0 0 Sulfur ppm ASTM D5185m 10 0 10 31 Acid Number (AN) mg KOHg ASTM D974 0.09 0.112 0.076 0.062	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.01 >100 NONE NONE NORML NORML >0.01	0 0.055 560 NONE NONE NORE NORML NORML 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.087 879.9 NONE NONE NORML NORML NEG 0 1 <1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0
Sulfur ppm ASTM D5185m 10 0 10 31 Acid Number (AN) mg KOH/g ASTM D974 0.09 0.112 0.076 0.062	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.01 >100 NONE NONE NORML >0.01 1 0 	0 0.055 560 NONE NONE NORML NORML NEG 0 2 0 0 0 0 0 0 0	0 0.087 879.9 NONE NONE NORML NORML NEG 0 1 <1 0 0 0	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0 8 0 0 0 0 0 0 0 0 0 0
Acid Number (AN) mg KOH/g ASTM D974 0.09 0.112 0.076 0.062	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.01 >100 NONE NONE NORML >0.01 1 0 	0 0.055 560 NONE NONE NORML NORML 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.087 879.9 NONE NONE NORML NORML NORML 0 1 <1 <1 0 0 0 0 0 0 0 0	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.01 >100 NONE NONE NORML NORML >0.01 0 0 0 0 0 0 5 	0 0.055 560 NONE NONE NORE NORE 0 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.087 879.9 NONE NONE NORML NORML NEG 0 1 <1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 ▲ 0.126 ▲ 1265.4 NONE LIGHT NORML NORML NEG 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0
Visc @ 40°C cSt ASTM D445 68 56.2 55.0 64.2	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.01 >100 NONE NONE NORML NORML >0.01 0 0 0 0 0 5 0 	0 0.055 560 NONE NONE NORE NORE NORML NORML 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.087 879.9 NONE NONE NORML NORML NEG 0 1 4 0 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0
	Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.01 >100 NONE NONE NORML >0.01 1 0 0 0 0 5 0 10 	0 0.055 560 NONE NONE NORML NORML 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.087 879.9 NONE NONE NORML NORML NEG 0 1 <1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.126 1265.4 NONE LIGHT NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0

Contact/Location: STACEY QUAM - NORDEF



Sample No. Received 4401 STATE RD 19 : WC0730394 : 11 Apr 2024 WINDSOR, WI Lab Number : 06145937 Tested : 12 Apr 2024 : 12 Apr 2024 - Doug Bogart US 53598 Unique Number : 10976015 Diagnosed Test Package : IND 2 (Additional Tests: PrtCount, PrtCountNAS) Contact: STACEY QUAM Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. squam@naminc.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (608)240-8906 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (608)240-8965

Contact/Location: STACEY QUAM - NORDEF Page 2 of 2