

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id MATTEI 10014075-2020 Component Compressor Fluid ROTOROIL 8000F2 (2 QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

Elemental level of silicon (Si) above normal. The water content is negligible.

.....

FLUID CONDITION

The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN37654	AN38588	
Sample Date		Client Info		07 May 2024	31 Jan 2023	
Machine Age	hrs	Client Info		382	696	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>50	28	30	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	0.5	0	0	
Aluminum	ppm	ASTM D5185m	>25	0	2	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	0	1	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	4 95	8 1	
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>25 >20	▲ 95 0	▲ 81 0	
Silicon Potassium Water	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D6304	>25 >20 >0.1	95 0 0.041	81 0 0.037	
Silicon Potassium Water ppm Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>25 >20 >0.1 >1000	 95 0 0.041 420 	 81 0 0.037 377.6 	
Silicon Potassium Water ppm Water Silt	ppm ppm % ppm scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 *Visual	>25 >20 >0.1 >1000 NONE	 95 0 0.041 420 NONE 	▲ 81 0 0.037 377.6 NONE	
Silicon Potassium Water ppm Water Silt Debris	ppm ppm % ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual	>25 >20 >0.1 >1000 NONE NONE	 95 0 0.041 420 NONE NONE 	▲ 81 0 0.037 377.6 NONE LIGHT	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt	ppm ppm % ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual	>25 >20 >0.1 >1000 NONE NONE NONE	 95 0 0.041 420 NONE NONE NONE NONE 	 81 0 0.037 377.6 NONE LIGHT NONE 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance	ppm ppm % ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual	>25 >20 >0.1 >1000 NONE NONE NONE	 95 0 0.041 420 NONE NONE NONE NORE NORML 	 81 0 0.037 377.6 NONE LIGHT NONE NORML 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm % ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 >0.1 >1000 NONE NONE NORML NORML	 95 0 0.041 420 NONE NONE NORML NORML 	 81 0 377.6 NONE LIGHT NONE NORML NORML 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm % ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NEG 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm % ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 >0.1 >1000 NONE NONE NONE NORML >0.1	 95 0 0.041 420 NONE NONE NORE NORML NEG 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NEG 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm % ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 5 0 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NEG 27 0 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm 9 % scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 5 0 0 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NEG 27 0 0 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm % % scalar scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 5 0 0 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NEG 27 0 0 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 5 0 0 0 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NORML NEG 27 0 0 1 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm pm % scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML NORML >0.1	 95 0 0.041 420 NONE NORML NORML NORML NEG 5 0 <li< th=""><th> 81 0 0.037 377.6 NONE LIGHT NORML NORML NORML 27 0 0 1 </th><th></th></li<>	 81 0 0.037 377.6 NONE LIGHT NORML NORML NORML 27 0 0 1 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm % % scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NORME NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 5 0 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NORML Q1 0 0 1 4 0 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 5 0 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NEG 27 0 0 1 4 0 765 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 5 0 17 22 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NEG 27 0 0 1 4 0 765 98 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm % ppm scalar scalar scalar scalar scalar ppm scalar scalar ppm ppm	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML >0.1	 95 0 0.041 420 NONE NORML NORML NORML S 0 17 33 262 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NEG 27 0 0 1 4 0 765 98 24 	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm % ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NORME NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NEG 5 0 	 81 0 0.037 377.6 NONE LIGHT NORML NORML NORML Q1 Q1 Q1 Q1 Q1 Q1 Q3 Q4 Q4 Q3 Q4 Q5 Q4 <l< th=""><th></th></l<>	
Silicon Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Acid Number (AN)	ppm % Scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	ASTM D5185m ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 >1000 NONE NONE NORML >0.1	 95 0 0.041 420 NONE NONE NORML NORML NORML 0 <l< th=""><th> 81 0 0.037 377.6 NONE LIGHT NORML NORML NORML 27 0 0 1 4 0 765 98 34 0.16 85 5 </th><th></th></l<>	 81 0 0.037 377.6 NONE LIGHT NORML NORML NORML 27 0 0 1 4 0 765 98 34 0.16 85 5 	

Contact/Location: MARTY WARD - MATTEI



MATTEI COMPRESSORS--OEM Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 9635 LIBERTY ROAD, SUITE E : AN37654 : 18 Jun 2024 Lab Number : 06213554 Tested RANDALLSTOWN, MD : 20 Jun 2024 Diagnosed Unique Number : 11086418 : 21 Jun 2024 - Jonathan Hester US 21133 Test Package : IND 2 Contact: MARTY WARD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jward@matteicomp.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)521-7020 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (410)521-7024

Contact/Location: MARTY WARD - MATTEI Page 2 of 2