

OIL ANALYSIS REPORT

Sample Rating Trend



NEUMAN & ESSER C-6004B (S/N 909000795)

Reciprocating Compressor

TOTAL FINA CARTER SP ISO 150 (22 GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0817276			
Sample Date		Client Info		11 May 2023			
Machine Age	hrs	Client Info		3228			
Oil Age	hrs	Client Info		353			
Oil Changed		Client Info		Changed			
Sample Status				NORMAL			
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<1			
Chromium	ppm	ASTM D5185m	>10	0			
Nickel	ppm	ASTM D5185m		0			
Titanium	ppm	ASTM D5185m		0			
Silver	ppm	ASTM D5185m		0			
Aluminum	ppm	ASTM D5185m	>25	3			
Lead	ppm	ASTM D5185m	>25	7			
Copper	ppm	ASTM D5185m	>50	0			
Tin	ppm	ASTM D5185m	>15	<1			
Vanadium	ppm	ASTM D5185m		0			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		17			
Barium	ppm	ASTM D5185m		0			
	ppm	ASTM D5185m ASTM D5185m		0			
Molybdenum				-			
Molybdenum Manganese	ppm	ASTM D5185m		0			
Molybdenum Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		0 <1			
Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1			
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 12			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 12 429			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1 12 429 0			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 12 429 0 6338			
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 <1 <2 429 0 6338 current	 history1		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m		0 <1 <1 <1 <2 429 0 6338 current	 history1		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m	>25	0 <1 <1 <1 12 429 0 6338 current 3 0	 history1		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm	ASTM D5185m	>25 >20	0 <1 <1 <1 <2 <429	 history1	history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm	ASTM D5185m	>25 >20 limit/base	0 <1 <1 <1 2 429 0 6338 current 3 0 <1 current	history1 history1	history2 history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D5185m Method ASTM D5185m	>25 >20 limit/base >10000	0 <1 <1 <1 12 429 0 6338 current 3 0 <1 current 2019	history1 history1	history2 history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >14µm	ppm	ASTM D5185m method ASTM D5185m	>25 >20 limit/base >10000 >2500 >320	0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	history1 history1	history2 history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm	ASTM D5185m Method ASTM D5185m ASTM D7647 ASTM D7647	>25 >20 limit/base >10000 >2500 >320	0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	history1 history1	history2 history2	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 limit/base >10000 >2500 >320 >80	0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	history1 history1	history2 history2	

FLUID DEGRADATION

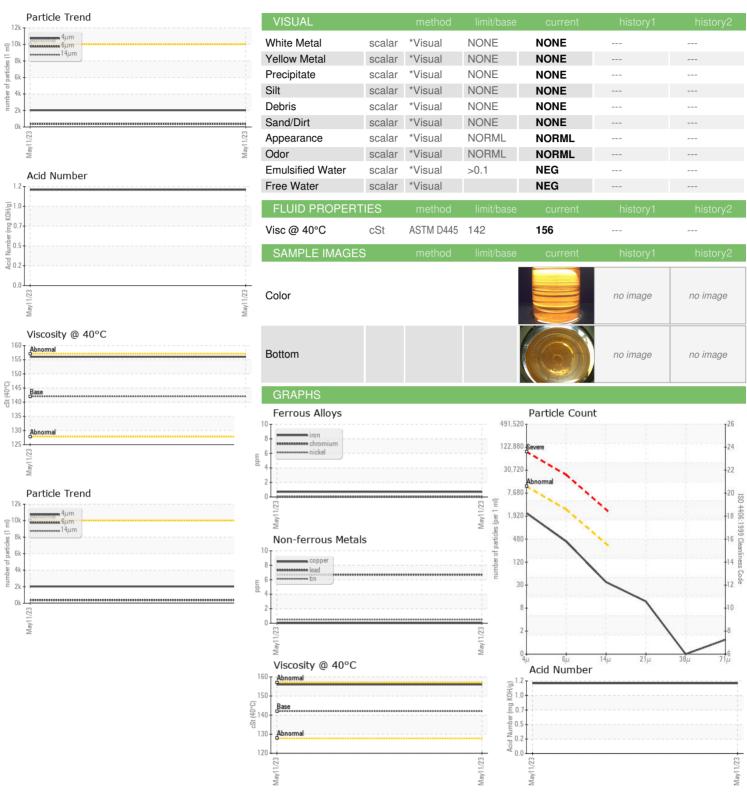
Acid Number (AN)

mg KOH/g ASTM D8045

1.16



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0817276 : 05847095

: 10471202

Test Package : IND 2 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Received : 15 May 2023 Diagnosed : 17 May 2023 : Don Baldridge Diagnostician

PIEDMONT NATURAL GAS / DUKE ENERGY 680 REV BILL RD

MAXTON, NC US 28364

F:

Contact: ANDREW CAVENAUGH andrew.cavenaugh@duke-energy.com T: (910)227-0302

Contact/Location: ANDREW CAVENAUGH - PIEMAX

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)