

OIL ANALYSIS REPORT

UNIT 3 (S/N 3210) Component

Pump Fluid

NOT GIVEN (--- QTS)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

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

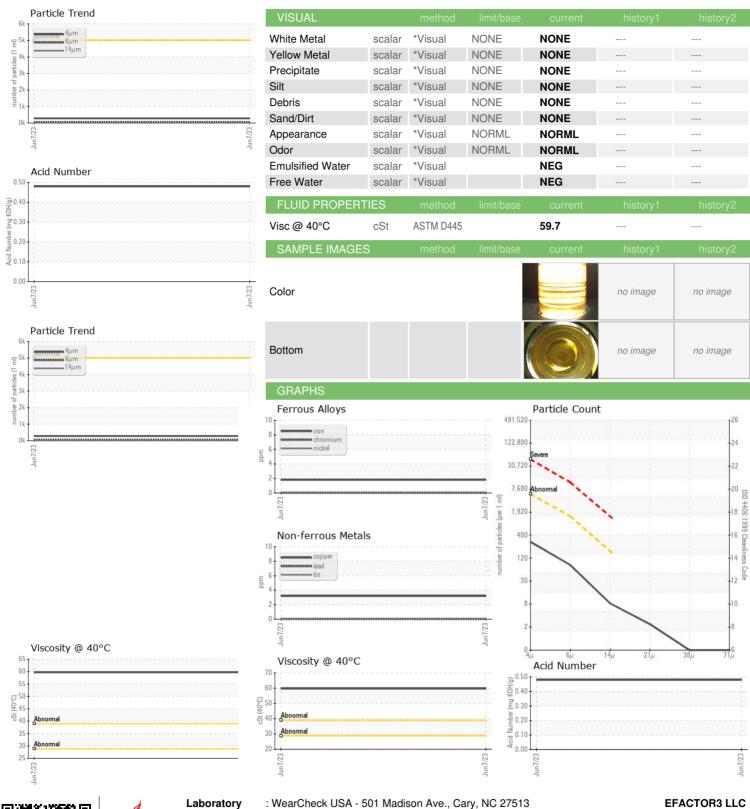
Fluid Condition

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

Sample Number Client Info WC0743522 Sample Date Client Info 07 Jun 2023 Machine Age hrs Client Info 361 Oil Age hrs Client Info 361 Oil Changed Client Info N/A WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >90 2 Chromium ppm ASTM D5185m >5 0 Chromium ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >3 0 Titanium ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >3 0 Lead ppm ASTM D5185m >3 0 Copper ppm ASTM D5185m >3 0 Copper ppm ASTM D5185m >9 0 Copper ppm ASTM D5185m >9 0 Cadmium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history ADDITIVES method limit/base current history1 history ASTM D5185m 0 Calcium ppm ASTM D5185m 0 ASTM D5185m 348 Calcium ppm ASTM D5185m 57 Calcium ppm ASTM D5185m 0 ASTM D5185m 348 Calcium ppm ASTM D5185m 348 Calcium ppm ASTM D5185m 348 Calcium ppm ASTM D5185m 3496 Calcium ppm ASTM D5185m Calcium ppm ASTM D5185m 3496					Jun 2023		
Sample Date Client Info 361	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 361	Sample Number		Client Info		WC0743522		
Oil Age hrs Client Info 361 Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >5 0 Chromium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >3 0 Titanium ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >12 0 Lead ppm ASTM D5185m >12 0 Copper ppm ASTM D5185m >9 0 Cadadium ppm ASTM D5185m 0 ADTIVES method limi	Sample Date		Client Info		07 Jun 2023		
Oil Changed Sample Status Client Info N/A	Machine Age	hrs	Client Info		361		
Sample Status NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >90 2 Nickel ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >7 <1	Oil Age	hrs	Client Info		361		
WEAR METALS	Oil Changed		Client Info		N/A		
Iron	Sample Status				NORMAL		
Chromium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >7 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>90	2		
Titanium	Chromium	ppm	ASTM D5185m	>5	0		
Stilver	Nickel	ppm	ASTM D5185m	>5	0		
Aluminum ppm ASTM D5185m >7 <1 Lead ppm ASTM D5185m >12 0 Copper ppm ASTM D5185m >9 0 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Manganesium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 348	Titanium	ppm	ASTM D5185m	>3	0		
Lead ppm ASTM D5185m >12 0 Copper ppm ASTM D5185m >30 3 Tin ppm ASTM D5185m >9 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Manganesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 57 Phosphorus ppm ASTM D5185m 348 Sulfur ppm ASTM D5185m 8496 <td< td=""><td>Silver</td><td>ppm</td><td>ASTM D5185m</td><td>>3</td><td>0</td><td></td><td></td></td<>	Silver	ppm	ASTM D5185m	>3	0		
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Calcium ppm ASTM D5185m 57 Phosphorus ppm ASTM D5185m 348 Zinc ppm ASTM D5185m 413 Sulfur ppm ASTM D5185m 8496 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >60 7 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >5000 280 Particles >6µm ASTM D7647 >160 7 Particles >21µm ASTM D7647 >40 2 Particles >71µm </td <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td></td> <td></td>	Manganese	ppm	ASTM D5185m		0		
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Sulfur ppm ASTM D5185m 8496 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >60 7 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >5000 280 Particles >6µm ASTM D7647 >1300 70 Particles >14µm ASTM D7647 >160 7 Particles >21µm ASTM D7647 >40 2 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 <td< td=""><td>Phosphorus</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>348</td><td></td><td></td></td<>	Phosphorus	ppm	ASTM D5185m		348		
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Silicon ppm ASTM D5185m >60 7 Sodium ppm ASTM D5185m <1	Sulfur	ppm	ASTM D5185m		8496		
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Particles >4μm ASTM D7647 >5000 280 Particles >6μm ASTM D7647 >1300 70 Particles >14μm ASTM D7647 >160 7 Particles >21μm ASTM D7647 >40 2 Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/13/10 FLUID DEGRADATION method limit/base current history1 history	Potassium	ppm	ASTM D5185m	>20	0		
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Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/13/10 FLUID DEGRADATION method limit/base current history1 history1	•						
Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 15/13/10 FLUID DEGRADATION method limit/base current history1 history1	·		ASTM D7647	>40	2		
Oil Cleanliness ISO 4406 (c) >19/17/14 15/13/10 FLUID DEGRADATION method limit/base current history1 history	•		ASTM D7647	>10			
FLUID DEGRADATION method limit/base current history1 history	Particles >71µm		ASTM D7647	>3	0		
·	Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10		
Acid Number (AN) mg KOH/g ASTM D8045 0.48	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.48		



OIL ANALYSIS REPORT





Certificate L2367

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

: WC0743522 : 05871045 : 10510829 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 12 Jun 2023 Received Diagnosed

: 16 Jun 2023 : Jonathan Hester Diagnostician

15050 CHOATE CIR, SUITE E CHARLOTTE, NC US 28273

Contact: L. REID LREID@EFACTOR3.COM T:

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

F: (704)944-3234 Contact/Location: L. REID - EFACHA