

OIL ANALYSIS REPORT

Sample Rating Trend



CML 2 - AW 46 POWER FLOW

Component
New (Unused) Oil
Fluid

{not provided} (--- GAL)

DIAGNOSIS

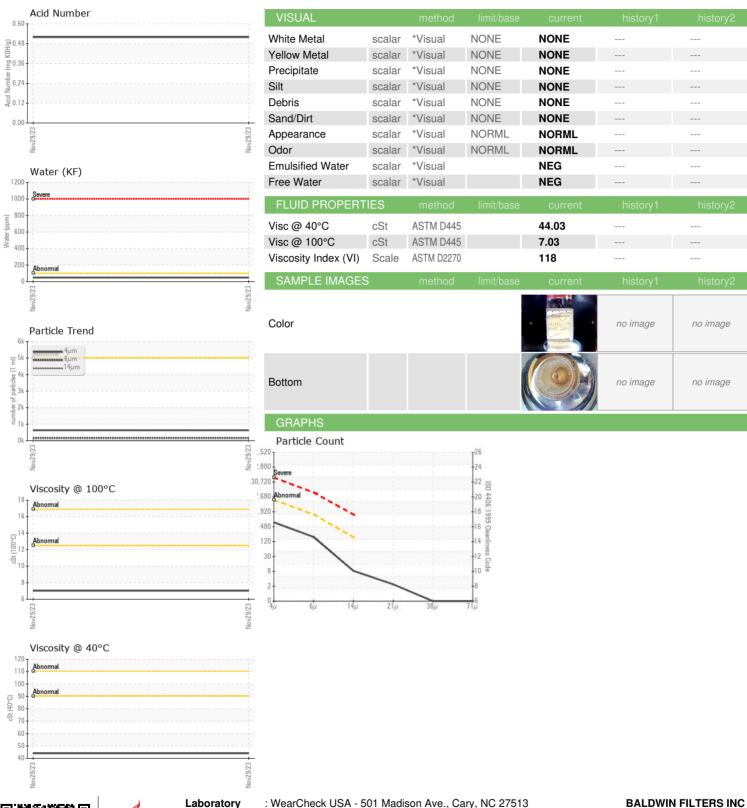
Recommendation

This is a baseline read-out on the submitted sample.

ASTM D5185m S5 Q								
Client Info WC0837858	SAMPLE INFORM	MATION	method			history1	history2	
Client Info 29 Nov 2023		I/(IIIOIV		IIIIIIIIIII				
Machine Age								
Oil Changed	·	una Allene						
Coli Changed Colient Info N/A	•							
NORMAL NORMAL NISTORY NI	-	mtns			· ·			
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >5 0 Chromium ppm ASTM D5185m >5 <1	-		Client Info		,			
Chromium					NORMAL			
Chromium ppm ASTM D5185m >5 <1 Nickel ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >5 2 Aluminum ppm ASTM D5185m >5 2 Aluminum ppm ASTM D5185m >5 2 Lead ppm ASTM D5185m >5 2 Academium ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Cadrium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Barium <	WEAR METALS		method	limit/base	current	history1	history2	
Nickel	-	ppm						
Titanium	Chromium	ppm	ASTM D5185m	>5	<1			
Silver	Nickel	ppm	ASTM D5185m	>5	0			
Astromotion	Titanium	ppm	ASTM D5185m		0			
Lead ppm ASTM D5185m >5 0 Copper ppm ASTM D5185m >5 2 Tin ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 76 Phosphorus ppm ASTM D5185m 490 Phosphorus ppm ASTM D5185m 439 Sulfur ppm ASTM D5185m 11	Silver	ppm	ASTM D5185m	>5	0			
Lead	Aluminum	ppm	ASTM D5185m	>5	2			
Copper	_ead		ASTM D5185m	>5	0			
Tin			ASTM D5185m					
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Manganesium ppm ASTM D5185m 76 Calcium ppm ASTM D5185m 76 Phosphorus ppm ASTM D5185m 490 Silicum ppm ASTM D5185m 639 Sulfur ppm ASTM D5185m 1168 CONTAMINANTS method limit/base current history1					_			
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Marganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 76 Calcium ppm ASTM D5185m 76 Phosphorus ppm ASTM D5185m 490 Zinc ppm ASTM D5185m 639 Sulfur ppm ASTM D5185m 1168 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >1 0 Sodium ppm ASTM D5185m >1								
ADDITIVES					-			
Boron ppm ASTM D5185m 0		ррпп						
Barium	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 76 Phosphorus ppm ASTM D5185m 490 Zinc ppm ASTM D5185m 639 Sulfur ppm ASTM D5185m 1168 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 515 0 Sodium ppm ASTM D5185m 0 Water % ASTM D5185m >20 <1 Water % ASTM D6304 0.004 ppm Water ppm ASTM D6304 48 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 627 Particles >21μm ASTM D7647 >1300 161 Particles >21μm ASTM D7647 >160 7 Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 FLUID DEGRADATION method limit/base current history1 history2 FLUID DEGRADATION history2 history3 history3 history4 history4 history4 history4 history4 history5 history6	Boron	ppm	ASTM D5185m		0			
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0			
Magnesium	Molybdenum	ppm	ASTM D5185m		0			
Calcium ppm ASTM D5185m 76 Phosphorus ppm ASTM D5185m 490 Zinc ppm ASTM D5185m 639 Sulfur ppm ASTM D5185m 1168 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 Sodium ppm ASTM D5185m >10 Potassium ppm ASTM D5185m >20 <1	Manganese	ppm	ASTM D5185m		0			
Phosphorus ppm ASTM D5185m 490 Zinc ppm ASTM D5185m 639 Sulfur ppm ASTM D5185m 1168 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 Sodium ppm ASTM D5185m >20 <1 Potassium ppm ASTM D5185m >20 <1 Water % ASTM D5185m >20 <1 Water % ASTM D5185m >20 <1 Water % ASTM D5185m >20 <1 Particles > 4m ASTM D6304 0.004 Particles > 4μm ASTM D7647 >5000 627	Magnesium	ppm	ASTM D5185m		<1			
Zinc ppm ASTM D5185m 639 Sulfur ppm ASTM D5185m 1168 Sulfur ppm ASTM D5185m 1168 Sulfur ppm ASTM D5185m >15 0 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 <1 Putassium ppm ASTM D6304 ASTM D647 >1300 161 Putaticles >6μm ASTM D7647 >160 7 Putaticles >21μm ASTM D7647 >40 2 Putaticles >38μm ASTM D7647 >40 2 Putaticles >71μm ASTM D7647 >3 0 Putaticles >71μm ASTM D7647 >3 0 Putaticles >71μm ASTM D7647 >3 0 Putaticles >71μm ASTM D7647 >3 0	Calcium	ppm	ASTM D5185m		76			
Zinc ppm ASTM D5185m 639 Sulfur ppm ASTM D5185m 1168 Sulfur ppm ASTM D5185m 1168 Sulfur ppm ASTM D5185m >15 0 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 <1 Potassium ppm ASTM D6304 ASTM D6	Phosphorus	ppm	ASTM D5185m		490			
Sulfur ppm ASTM D5185m 1168 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 0 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 <1	Zinc		ASTM D5185m		639			
Silicon ppm ASTM D5185m >15 0 Sodium ppm ASTM D5185m 0 Sodium ppm ASTM D5185m 0 Sodium ppm ASTM D5185m >20 <1 Sodium ppm ASTM D5185m >20 <1 Sodium ppm ASTM D6304 STM D647 >5000 STM D7647 STM	Sulfur		ASTM D5185m		1168			
Silicon ppm ASTM D5185m >15 0 Sodium ppm ASTM D5185m 0 Sodium ppm ASTM D5185m 0 Sodium ppm ASTM D5185m >20 <1 Sodium ppm ASTM D5185m >20 <1 Sodium ppm ASTM D6304 STM D647 >5000 STM D7647 STM	CONTAMINANTS		method	limit/base	current	history1	history2	
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Potassium ppm ASTM D5185m >20 <1 Water % ASTM D6304 0.004 ppm Water ppm ASTM D6304 48 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 627 Particles >6μm ASTM D7647 >1300 161 Particles >14μm ASTM D7647 >40 2 Particles >21μm ASTM D7647 >40 2 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 16/15/10 FLUID DEGRADATION method limit/base current history1 history2				>10				
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FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 627 Particles >6μm ASTM D7647 >1300 161 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 16/15/10 FLUID DEGRADATION method limit/base current history1 history2								
Particles >4μm ASTM D7647 >5000 627 Particles >6μm ASTM D7647 >1300 161 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 16/15/10 FLUID DEGRADATION method limit/base current history1 history2				lipoit/le e e	-	hiotomat	bioto - 0	
Particles >6μm ASTM D7647 >1300 161 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 16/15/10 FLUID DEGRADATION method limit/base current history1 history2		ESS						
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 16/15/10 FLUID DEGRADATION method limit/base current history1 history2	·							
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 16/15/10 FLUID DEGRADATION method limit/base current history1 history2								
Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 16/15/10 FLUID DEGRADATION method limit/base current history1 history2								
Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 16/15/10 FLUID DEGRADATION method limit/base current history1 history2	•			>40	2			
Oil Cleanliness ISO 4406 (c) >19/17/14 16/15/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >38μm				0			
FLUID DEGRADATION method limit/base current history1 history2	Particles >71μm		ASTM D7647	>3	0			
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/10			
Acid Number (AN) mg KOH/g ASTM D8045 0.52	FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.52			



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 06026942 : 10776733

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0837858 Received : 06 Dec 2023 : 08 Dec 2023 Diagnosed Diagnostician : Jonathan Hester

Test Package : TEST (Additional Tests: ICP, KF, KV100, KV40, PrtCount, VI) 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)

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