

OIL ANALYSIS REPORT

[7194] **BATCH 24530 - AW 32**

New (Unused) Oil

AW HYDRAULIC OIL ISO 32 (--- GAL)

Sample Rating Trend ISO

DIAGNOSIS

Recommendation

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

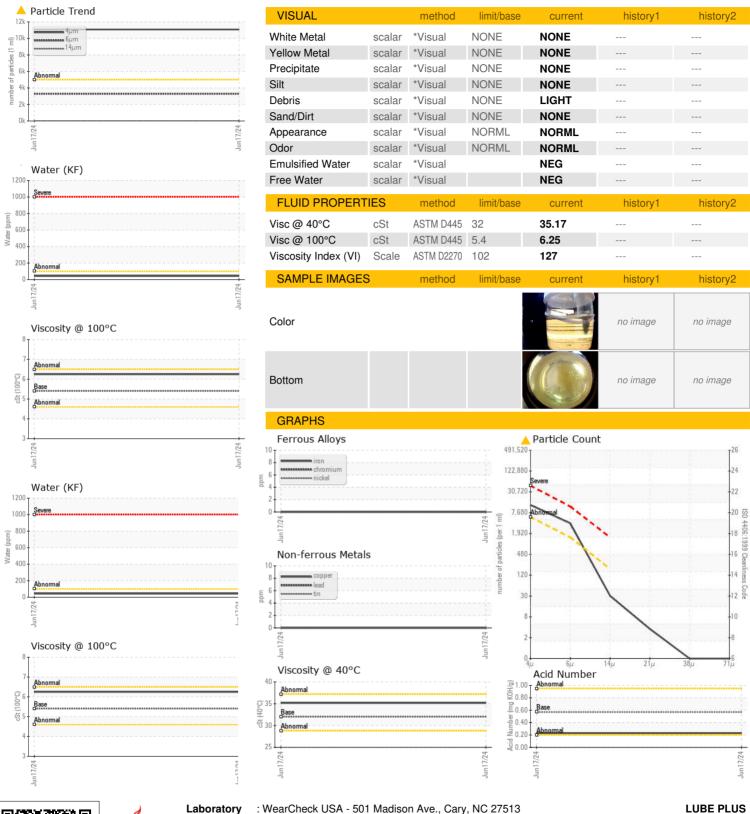
Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Sample Number Client Info RP0039793	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 17 Jun 2024							
Machine Age hrs Client Info 0							
Dil Age	•	bre					
Dil Changed Client Info N/A N/A							
Bample Status method limit/base current history1 history1 ron ppm ASTM D5185m >5 0 Chromium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >5 0 Lead ppm ASTM D5185m >5 0 Copper ppm ASTM D5185m >5 0 Valuminum ppm ASTM D5185m 0 Cadamium ppm ASTM D5185m 5 0 Cadamium ppm ASTM D5185m 5 0	-	1115			-		
WEAR METALS method limit/base current history1 histor Iron ppm ASTM DS185m >5 0 Chromium ppm ASTM DS185m >5 0 Nickel ppm ASTM DS185m >5 0 Silver ppm ASTM DS185m >5 0 ALuminum ppm ASTM DS185m >5 0 Lead ppm ASTM DS185m >5 0 Lead ppm ASTM DS185m >5 0 Acadmium ppm ASTM DS185m >5 0 Cadmium ppm ASTM DS185m 0 Barium ppm ASTM DS185m 5 0 Barium ppm ASTM DS185m 5 <1	-		Olletti Ittio				
Chromium	·						
Chromium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Siliver ppm ASTM D5185m >5 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	ron	ppm	ASTM D5185m	>5	0		
Description	Chromium	ppm	ASTM D5185m	>5	0		
Silver	Nickel	ppm	ASTM D5185m	>5	0		
Aluminum ppm ASTM D5185m >5 0	Titanium	ppm	ASTM D5185m		0		
Lead ppm ASTM D5185m >5 0 Copper ppm ASTM D5185m >5 0 Tin ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 5 0 ADDITIVES method limit/base current history1 history1 history1 Boron ppm ASTM D5185m 5 0 Barium ppm ASTM D5185m 5 0 Manganesium ppm ASTM D5185m 5 1 Calcium ppm ASTM D5185m 20 50 Phosphorus ppm ASTM D5185m 20 50 Zinc ppm ASTM D5185m 370 31	Silver	ppm	ASTM D5185m	>5	<1		
Copper ppm ASTM D5185m >5 0 Tin ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 5 0 Barium ppm ASTM D5185m 5 0 Molybdenum ppm ASTM D5185m 5 <1	Aluminum	ppm	ASTM D5185m	>5	0		
Tin ppm ASTM D5185m >5 0	Lead	ppm	ASTM D5185m	>5	0		
Tin ppm ASTM D5185m >5 0	Copper	ppm	ASTM D5185m	>5	0		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 histor Boron ppm ASTM D5185m 5 0 Barium ppm ASTM D5185m 5 0 Molybdenum ppm ASTM D5185m 5 <1 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 20 50 Magnesium ppm ASTM D5185m 200 50 Calcium ppm ASTM D5185m 200 50 Phosphorus ppm ASTM D5185m 370 315 Zinc ppm ASTM D5185m 370 315 <td>Tin</td> <td></td> <td></td> <td>>5</td> <td>0</td> <td></td> <td></td>	Tin			>5	0		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 histor Boron ppm ASTM D5185m 5 0 Barium ppm ASTM D5185m 5 0 Molybdenum ppm ASTM D5185m 0 Mangaesium ppm ASTM D5185m 20 50 Magnesium ppm ASTM D5185m 200 50 Calcium ppm ASTM D5185m 200 50 Phosphorus ppm ASTM D5185m 370 315 Zinc ppm ASTM D5185m 370 315 CONTAMINANTS method limit/base current history1 histor Silicon ppm ASTM D5185m >1 <td>Vanadium</td> <td></td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td></td> <td></td>	Vanadium		ASTM D5185m		0		
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Barium ppm ASTM D5185m 5	ADDITIVES		method	limit/base	current	history1	history2
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Molybdenum ppm ASTM D5185m 5 <1	Barium		ASTM D5185m	5			
Manganese ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 25 1 Phosphorus ppm ASTM D5185m 200 50 Phosphorus ppm ASTM D5185m 300 275 Zinc ppm ASTM D5185m 370 315 CONTAMINANTS method limit/base current history1 history1 Solicon ppm ASTM D5185m >15 <1					<1		
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Calcium ppm ASTM D5185m 200 50 Phosphorus ppm ASTM D5185m 300 275 Zinc ppm ASTM D5185m 370 315 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >15 <1	-			25	1		
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Silicon ppm ASTM D5185m >15 <1 Sodium ppm ASTM D5185m 1 Sodium ppm ASTM D5185m 20 0 Sodium ppm ASTM D5185m 20 0 Sodium ppm ASTM D6304 0.004 Sodium ppm ASTM D6304 0.004 Sodium ppm ASTM D6304 43 Sodium ppm ASTM D6304 43 Sodium ppm ASTM D7647 5000							
Sodium	CONTAMINANTS	i	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 Water % ASTM D6304 0.004 ppm Water ppm ASTM D6304 43 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >5000 11082 Particles >6μm ASTM D7647 >1300 3294 Particles >14μm ASTM D7647 >160 27 Particles >21μm ASTM D7647 >40 3 Particles >38μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12	Silicon	ppm	ASTM D5185m	>15	<1		
Water % ASTM D6304 0.004 ppm Water ppm ASTM D6304 43 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >5000 11082 Particles >6μm ASTM D7647 >1300 3294 Particles >14μm ASTM D7647 >160 27 Particles >21μm ASTM D7647 >40 3 Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 FLUID DEGRADATION method limit/base current history1 history1	Sodium	ppm	ASTM D5185m		1		
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FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >5000 ▲ 11082 Particles >6μm ASTM D7647 >1300 ▲ 3294 Particles >14μm ASTM D7647 >160 27 Particles >21μm ASTM D7647 >40 3 Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 FLUID DEGRADATION method limit/base current history1 history1	Water	%	ASTM D6304		0.004		
Particles >4μm ASTM D7647 >5000 ▲ 11082 Particles >6μm ASTM D7647 >1300 ▲ 3294 Particles >14μm ASTM D7647 >160 27 Particles >21μm ASTM D7647 >40 3 Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Poil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 FLUID DEGRADATION method limit/base current history1 history1	ppm Water	ppm	ASTM D6304		43		
Particles >6μm ASTM D7647 >1300 3294 Particles >14μm ASTM D7647 >160 27 Particles >21μm ASTM D7647 >40 3 Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 FLUID DEGRADATION method limit/base current history1 history1	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm	Particles >4µm		ASTM D7647	>5000	11082		
Particles >21μm ASTM D7647 >40 3 Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 FLUID DEGRADATION method limit/base current history1 history1	Particles >6µm		ASTM D7647	>1300	^ 3294		
Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 FLUID DEGRADATION method limit/base current history1 history1	Particles >14µm		ASTM D7647	>160	27		
Particles >38μm ASTM D7647 >10 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 FLUID DEGRADATION method limit/base current history1 history1	•		ASTM D7647	>40	3		
Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 21/19/12 FLUID DEGRADATION method limit/base current history1 history1			ASTM D7647	>10			
Oil Cleanliness ISO 4406 (c) >19/17/14 21/19/12 FLUID DEGRADATION method limit/base current history1 history	·		ASTM D7647	>3	0		
•	·		ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/12		
Acid Number (AN) mg KOH/g ASTM D8045 0.57 0.23	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.23		



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: RP0039793 : 06212235 Unique Number : 11085099

Received : 17 Jun 2024 **Tested** : 20 Jun 2024 Diagnosed

: 20 Jun 2024 - Jonathan Hester Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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) 15551 W HWY 82 MUENSTER, TX US 76252

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