

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id BREAK DOWN

Component **Top Hydraulic System** Fluid **FUCHS RENOLIN UNISYN CLP 220 (--- GAL)**

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please note that this is a corrected copy.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		FCH0000219		
Sample Date		Client Info		13 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	26		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	0		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m	~~~	<1		
Cadmium	ppm	ASTM D5185m		<1		
	ppin	method	limit/base			
ADDITIVES			IIIIIVDase	current	history1	history2
Boron	ppm	ASTM D5185m		4		
Barium	ppm	ASTM D5185m		4		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		23		
Phosphorus	ppm	ASTM D5185m		223		
Zinc	ppm	ASTM D5185m		11		
Sulfur	ppm	ASTM D5185m		6641		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	13		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	1		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>160	A 210988		
Particles >6µm		ASTM D7647		<u> </u>		
Particles >14µm		ASTM D7647		633		
Particles >21µm		ASTM D7647	>3	<u> </u>		
Particles >38μm		ASTM D7647	>3	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>14/6/4	25/23/16		
FLUID DEGRADA		method	limit/base	current	history1	history2
					motory	motoryz
Acid Number (AN)	mg KOH/g	ASTM D8045	0.6	0.57		
21.11) Rov. 2						nagor - ATLRL

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250

Ê 200

응 150

100

50

Ok

250

Ê 200

·응 150

100

50 Ok

0.70

0.60 (BHO) 0.50 Ê 0.40

은 0.30

0.20 Acid 1

0.10

250

240

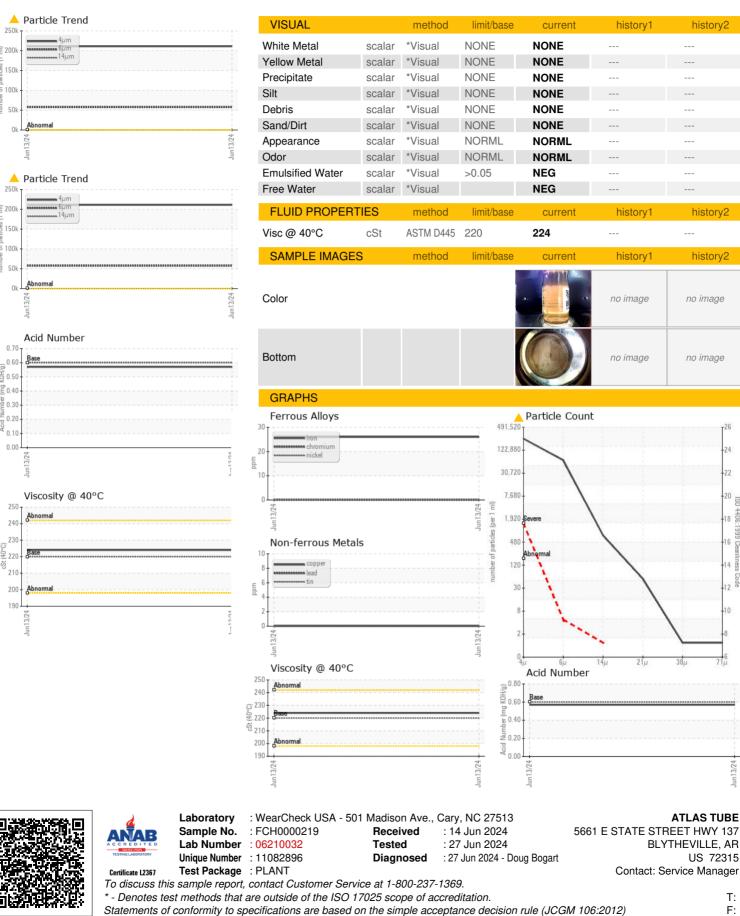
230

210

200

5

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:1999 Cle

14

3/24

T:

F: