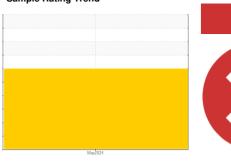


PROBLEM SUMMARY

Sample Rating Trend



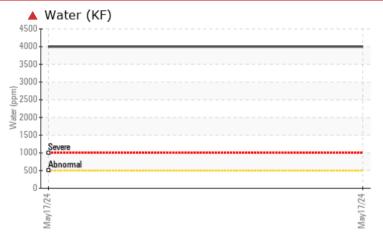


Machine Id MIDDLE

Hydraulic System

PANOLIN HLP SYNTH 46 (100 GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Water	%	ASTM D6304	>0.05	▲ 0.400					
ppm Water	ppm	ASTM D6304	>500	4000					
Emulsified Water	scalar	*Visual	>0.05	0.2%					

Customer Id: NORPLAMA Sample No.: LP0002173 Lab Number: 06184254 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Water Access			?	We advise that you check for the source of water entry.		
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id MIDDLE Component Hydraulic Syst

Hydraulic System

PANOLIN HLP SYNTH 46 (100 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Appearance is hazy. There is a moderate amount of particulates present in the oil. There is a moderate concentration of water present in the oil.

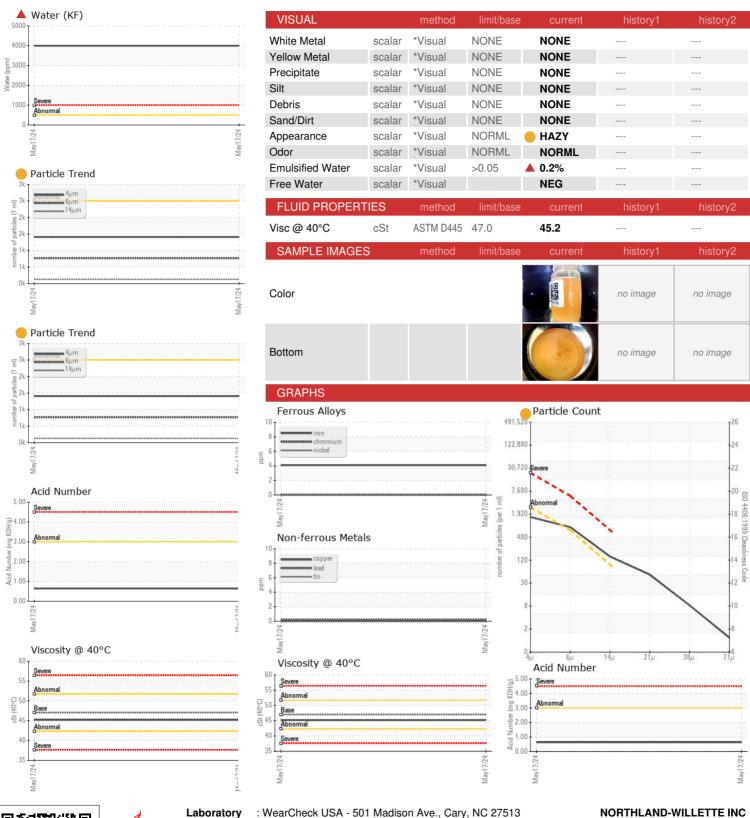
Fluid Condition

The AN level is acceptable for this fluid.

				May2024		
CAMPLE INCORN	AATION	0 1	11 11 11		111	1::
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LP0002173		
Sample Date		Client Info		17 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>20	0		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	0	1		
Calcium	ppm	ASTM D5185m	0	4		
Phosphorus	ppm	ASTM D5185m	1700	1341		
Zinc	ppm	ASTM D5185m	0	23		
Sulfur	ppm	ASTM D5185m	1350	773		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	▲ 0.400		
ppm Water	ppm	ASTM D6304	>500	▲ 4000		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1409		
Particles >6µm		ASTM D7647	>640	768		
Particles >14µm		ASTM D7647	>80	131		
Particles >21µm		ASTM D7647	>20	44		
Particles >38µm		ASTM D7647	>4	7		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/17/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.64		



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: LP0002173

Lab Number : 06184254 Unique Number : 11035580

Test Package : IND 2 (Additional Tests: KF)

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.

Received : 20 May 2024 Tested : 29 May 2024 Diagnosed : 29 May 2024 - Jonathan Hester

US 02762 Contact: JIM ALLEN JALLEN@NWHYDINC.COM

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (508)699-4017

12 HIGH ST

PLAINVILLE, MA