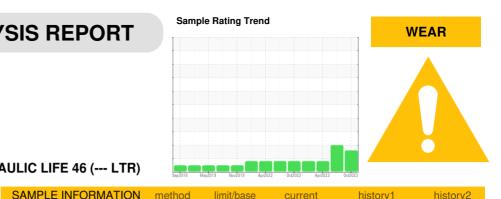


# **OIL ANALYSIS REPORT**



current

# Machine Id B-004.1C Component

## **Hydraulic System**

## HIGH PERFORMANCE LUBRICANTS HYDRAULIC LIFE 46 (--- LTR)

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

#### A Wear

The copper level is abnormal. All other component wear rates are normal.

#### Contamination

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

#### Fluid Condition

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

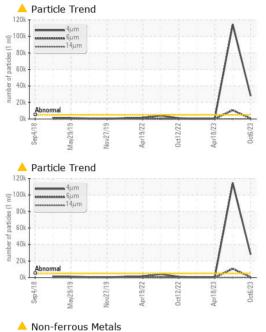
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HPL0004120	HPL0003330	HPL0003256
Sample Date		Client Info		06 Oct 2023	13 Jul 2023	18 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
			>20		0	0
Iron	ppm	ASTM D5185m		0		
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	<1	0
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>75	<u> </u>	<u> </u>	<u> </u>
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		1	2	8
Phosphorus	ppm	ASTM D5185m		454	453	437
Zinc	ppm	ASTM D5185m		353	343	409
Sulfur	ppm	ASTM D5185m		18828	21477	17826
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		4	4	4
Sodium	ppm	ASTM D5185m	220	- <1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>27958</b>	▲ 114489	457
Particles >6µm		ASTM D7647		489	▲ 10645	166
Particles >14µm		ASTM D7647	>160	57	7	21
Particles >21µm		ASTM D7647 ASTM D7647		19	2	4
Particles >38µm		ASTM D7647 ASTM D7647		0	0	0
			>10		0	0
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/16/13	<b>4</b> /21/10	16/15/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.44	0.57

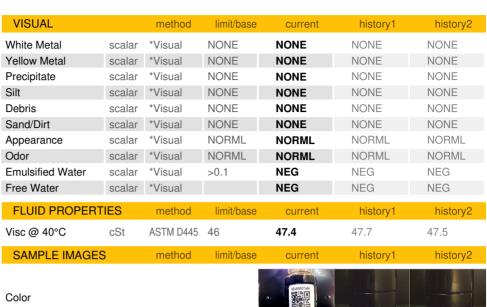
limit/ba



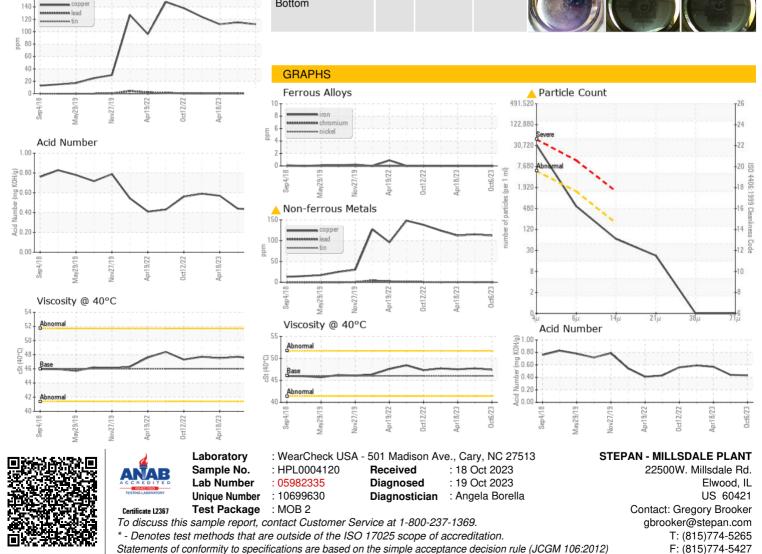
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# **OIL ANALYSIS REPORT**





Bottom



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