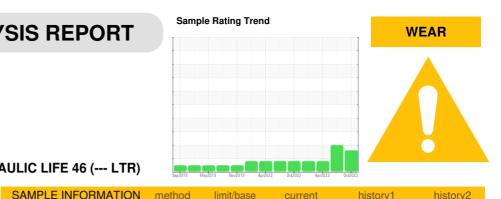


OIL ANALYSIS REPORT



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.

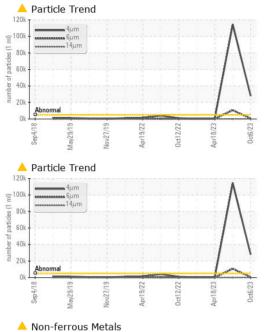
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HPL0004120	HPL0003330	HPL0003256
Sample Date		Client Info		06 Oct 2023	13 Jul 2023	18 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	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		27958	▲ 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	4 /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

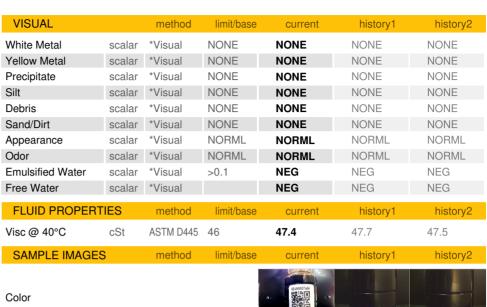
limit/ba



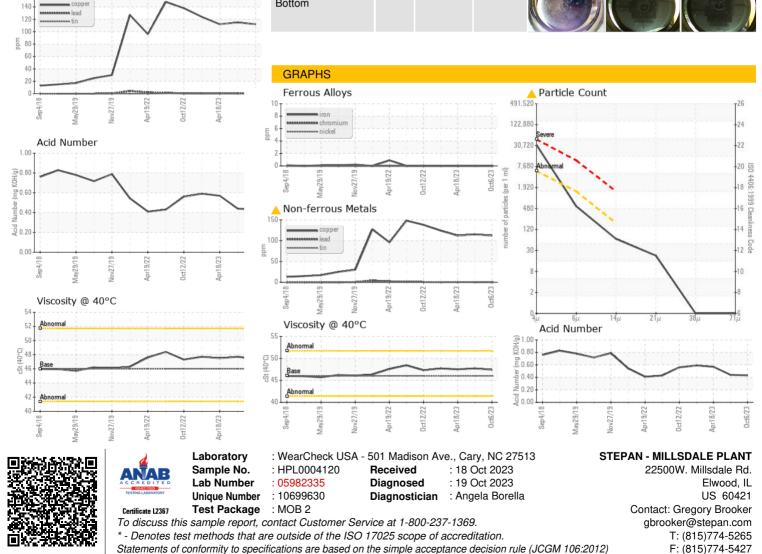
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OIL ANALYSIS REPORT





Bottom



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