

OIL ANALYSIS REPORT

CONNECTION BAY HBB HYDRAULIC Component

Hydraulic System AW HYDRAULIC OIL ISO 46 (--- QTS)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

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

	NORMAL		
	V		



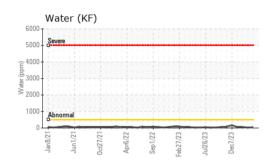
Apr2022 Sep2022 Feb2023 Jul2023 Dec2023

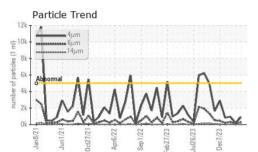
Sample Rating Trend

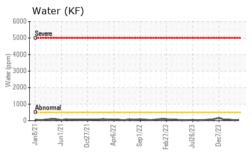
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0042714	RP0042645	RP0039215
Sample Date		Client Info		28 Mar 2024	05 Mar 2024	31 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	2	<1
Lead	ppm	ASTM D5185m	>20	0	0	2
Copper	ppm	ASTM D5185m	>20	3	4	6
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	2
Magnesium	ppm	ASTM D5185m	25	0	1	2
Calcium	ppm	ASTM D5185m	200	48	50	48
Phosphorus	ppm	ASTM D5185m	300	330	311	346
Zinc	ppm	ASTM D5185m	370	402	407	436
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	2	3
Sodium	ppm	ASTM D5185m		<1	0	2
Potassium	ppm	ASTM D5185m	>20	0	<1	4
Water	%	ASTM D6304	>0.05	0.004	0.003	0.006
ppm Water	ppm	ASTM D6304	>500	40	27	60
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	895	170	939
Particles >6µm		ASTM D7647	>1300	300	62	326
Particles >14µm		ASTM D7647	>160	34	9	33
Particles >21µm		ASTM D7647		10	3	7
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12	15/13/10	17/16/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.24	0.26	0.31

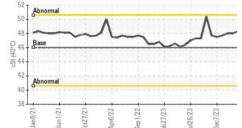


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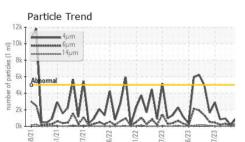




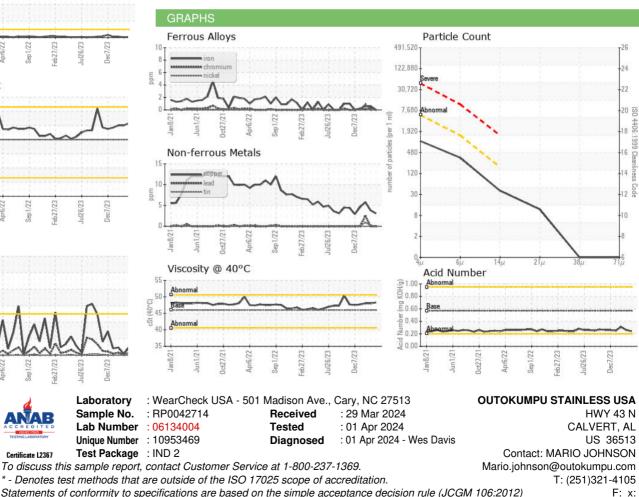




Viscosity @ 40°C







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

Submitted By: DALE ROBINSON

Page 2 of 2