

OIL ANALYSIS REPORT

HAPL Area HAPL BRIDLE 5.1 (S/N 16-1100-0612)

Gearbox

NOT GIVEN (--- QTS)

Sample Rating Trend



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 water content is negligible. There is no indication of any contamination 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		RP0035470	RP0031316	RP0028685
Sample Date		Client Info		24 Aug 2023	04 Mar 2023	02 Aug 2022
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
PQ		ASTM D8184		16	12	19
Iron	ppm	ASTM D5185m	>200	9	7	7
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	0	0	0
Antimony	ppm	ASTM D5185m	>5			
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		1	3	5
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	4	1
Calcium	ppm	ASTM D5185m		34	28	28
Phosphorus	ppm	ASTM D5185m		117	101	112
Zinc	ppm	ASTM D5185m		8	0	6
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	6	4
Sodium	ppm	ASTM D5185m		0	2	4
Potassium	ppm	ASTM D5185m	>20	6	4	6
Water	%	ASTM D6304	>0.2	0.011	0.003	0.007
ppm Water	ppm	ASTM D6304	>2000	118.1	31.9	72.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.33	0.31	0.31



OIL ANALYSIS REPORT







Laboratory

Lab Number **Unique Number**

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0035470 Received : 25 Aug 2023

40 20

(mg KOH/g)

₩ 0.20 를 0.10

00.00 PG

Acid Number

: 05935524 : 28 Aug 2023 Diagnosed Diagnostician : Wes Davis : 10620795

Test Package : IND 2 (Additional Tests: PQ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

400

350 (0-0+) 300 ± 250 ±

200

150

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Viscosity @ 40°C

OUTOKUMPU STAINLESS USA

HWY 43 N CALVERT, AL US 36513

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com

T: (251)321-4105 F: x: