

OIL ANALYSIS REPORT

HAPL Area HAPL RECOILER (S/N 16-1100-0656)

Gearbox

GEAR OIL ISO 320 (60 GAL)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

		pr2015 Ju	n2016 Dec2016 Se	p2018 Feb2020 Jul2021	Mar2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035464	RP0031302	RP0028907
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	13	13
Iron	ppm	ASTM D5185m	>200	22	15	9
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		0	0	1
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m	>200	3	2	2
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	50	0	<1	2
Barium	ppm	ASTM D5185m	15	1	0	0
Molybdenum	ppm	ASTM D5185m	15	<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	50	1	4	2
Calcium	ppm	ASTM D5185m	50	9	4	2
Phosphorus	ppm	ASTM D5185m	350	103	83	82
Zinc	ppm	ASTM D5185m	100	10	0	6
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	2	1
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304	>0.2	0.011	0.003	0.003
ppm Water	ppm	ASTM D6304	>2000	112.1	34.6	26.5
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.29	0.29	0.28



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 10620812 Test Package : IND 2 (Additional Tests: PQ)

: RP0035464 : 05935541

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Aug 2023 Diagnosed : 01 Sep 2023

Diagnostician : Don Baldridge

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. **OUTOKUMPU STAINLESS USA** HWY 43 N

CALVERT, AL US 36513

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