

OIL ANALYSIS REPORT

SAMPLE

Sample Rating Trend

NORMAL



STL64.1

STL 64.1 DEFLECTOR ROLL (S/N 16-5130-0135)

Gearbox

NOT GIVEN (--- QTS)

DIAGNOS	

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

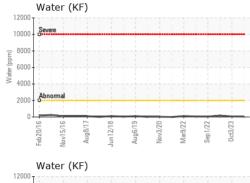
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

mber	Client Info	R	P0043997	RP003
INFORMATION	method	limit/base	current	his
130-0135)	eb2016 New2016	Aug2017 Jun2018 Aug2019	Nov2020 Mar2022 Smp2022	0ct/023

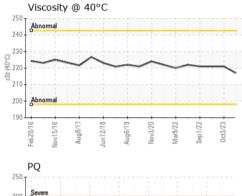
Sample Number		Client Info		RP0043997	RP0038619	RP0034545
Sample Date		Client Info		11 Jul 2024	03 Oct 2023	25 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		21	13	15
Iron	ppm	ASTM D5185m	>200	16	14	13
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	0
Lead	ppm	ASTM D5185m	>100	<1	<1	<1
Copper	ppm	ASTM D5185m	>200	34	31	29
Tin	ppm	ASTM D5185m	>25	4	4	3
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 3	history1	history2
	ppm		limit/base			
Boron		ASTM D5185m	limit/base	3	<1	1
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	3 0	<1 0	1
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0	<1 0 0	1 0 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0	<1 0 0 0 <1	1 0 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 0	<1 0 0 0 <1 0	1 0 0 0 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 0 0 0 26	<1 0 0 <1 0 26	1 0 0 0 0 <1 29
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 0 0 0 26 120	<1 0 0 <1 0 26 119	1 0 0 0 <1 29
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 0 0 0 0 26 120	<1 0 0 <1 0 26 119	1 0 0 0 0 <1 29 112 24
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 0 0 0 0 0 26 120 11	<1 0 0 <1 0 26 119 13	1 0 0 0 0 0 <1 29 112 24 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	3 0 0 0 0 26 120 11 current	<1 0 0 <1 0 26 119 13 history1	1 0 0 0 0 0 <1 29 112 24 history2 6
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	3 0 0 0 0 26 120 11 current 6	<1 0 0 <1 0 26 119 13 history1 6 <1	1 0 0 0 0 0 <1 29 112 24 history2 6 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50 >20	3 0 0 0 0 26 120 11 current 6 <1	<1 0 0 <1 0 26 119 13 history1 6 <1	1 0 0 0 0 0 <1 29 112 24 history2 6 0 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50 >20 >0.2	3 0 0 0 0 26 120 11 current 6 <1 1	<1 0 0 <1 0 26 119 13 history1 6 <1 1 0.006	1 0 0 0 0 0 <1 29 112 24 history2 6 0 1 0.017

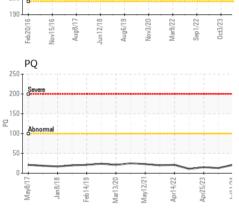


OIL ANALYSIS REPORT



12000 1	Water	(KF)							
10000-	Severe			-					
€ 8000									
Mater (ppm)									
³ 4000 ⋅									
2000 -	Abnormal								ŀ
0-	Feb20/16 -	Aug8/17.	Jun12/18	Aug6/19	Nov3/20	Mar9/22 -	Sep1/22	0ct3/23 -	





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPE	KIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445		217	221	221

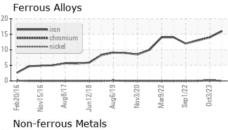
SAMP	I = IM	AGES
SAIVII		AGLO

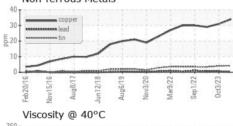


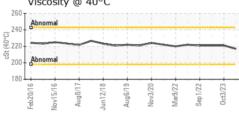
Bottom

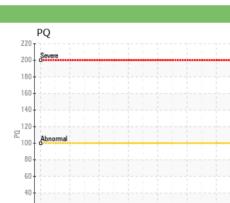
GRAPHS

Color









Acid Number ® 0.50 HQ 0.40 Ē 0.30 Acid Number 0.20





Certificate 12367

Laboratory Sample No.

Lab Number : 06235045 Unique Number : 11123879

: RP0043997

Test Package : IND 2 (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 12 Jul 2024 : 15 Jul 2024

: 15 Jul 2024 - Wes Davis

US 36513 Contact: MARIO JOHNSON Mario.johnson@outokumpu.com T: (251)321-4105

OUTOKUMPU STAINLESS USA

* - 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)

Report Id: OUTCALAL [WUSCAR] 06235045 (Generated: 07/15/2024 09:53:15) Rev: 1

Submitted By: DALE ROBINSON

F: x:

HWY 43 N

CALVERT, AL