

### **PROBLEM SUMMARY**

#### Sample Rating Trend

#### VISCOSITY

# VISCOSITI

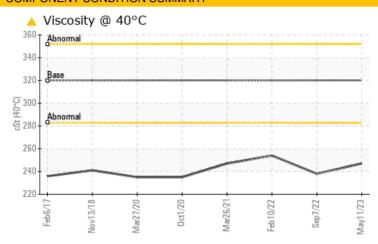
## MELT SHOP - SGP

## SOUTHSIDE GRINDER SOUTH GEARBOX (S/N 15-4000-0820)

Component **Gearbox** 

EP 320 (--- QTS)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS											
Sample Status				ATTENTION	ATTENTION	ATTENTION					
Visc @ 40°C	cSt	ASTM D445	320	<u> </u>	<u>\$238</u>	<u>\$\times\$ 254</u>					

Customer Id: OUTCALAL Sample No.: RP0035101 Lab Number: 05846348 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

#### 07 Sep 2022 Diag: Doug Bogart

#### VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



#### 10 Feb 2022 Diag: Angela Borella

#### VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



#### 26 Mar 2021 Diag: Don Baldridge

#### VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.





### **OIL ANALYSIS REPORT**

SAMPLE INFORMATION

Sample Number

#### Sample Rating Trend

limit/base

method

Client Info

#### **VISCOSITY**

history2

RP0022727

history1

RP0029812

# MELT SHOP - SGP

SOUTHSIDE GRINDER SOUTH GEARBOX (S/N 15-4000-0820)

Component

Gearbox

EP 320 (--- QTS)

#### **DIAGNOSIS**

#### Recommendation

Resample at the next service interval to monitor.

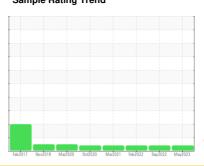
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

#### Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



current

RP0035101

Sample Date		Client Info		11 May 2023	07 Sep 2022	10 Feb 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				ATTENTION	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		77	36	48
Iron	ppm	ASTM D5185m	>200	101	78	93
Chromium	ppm	ASTM D5185m	>15	1	<1	1
Nickel	ppm	ASTM D5185m	>15	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	0	history1 0	2
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	0 0 <1	0 0 0	2 1 0
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 0	0	2
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1	0 0 0	2 1 0
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 2	0 0 0	2 1 0 2
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 2 0 107 262	0 0 0 1	2 1 0 2 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	0 0 <1 2 0 107	0 0 0 1 0	2 1 0 2 1 115
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 2 0 107 262	0 0 0 1 0 90 230	2 1 0 2 1 115 258
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 2 0 107 262 22	0 0 0 1 0 90 230 49	2 1 0 2 1 115 258 46
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	0 0 <1 2 0 107 262 22 current	0 0 0 1 0 90 230 49	2 1 0 2 1 115 258 46 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m MSTM D5185m	limit/base	0 0 <1 2 0 107 262 22 current	0 0 0 1 0 90 230 49 history1	2 1 0 2 1 115 258 46 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >50	0 0 <1 2 0 107 262 22 current 3 5	0 0 0 1 0 90 230 49 history1 2	2 1 0 2 1 115 258 46 history2 4
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	0 0 <1 2 0 107 262 22 current 3 5	0 0 0 1 0 90 230 49 history1 2	2 1 0 2 1 115 258 46 history2 4 0
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	0 0 <1 2 0 107 262 22 current 3 5 1 0.006	0 0 0 1 0 90 230 49 history1 2 4 0	2 1 0 2 1 115 258 46 history2 4 0 0



#### OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number

**Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0035101 : 05846348

: 10470455

Received Diagnosed : 12 May 2023

: 16 May 2023

Diagnostician : Don Baldridge

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

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