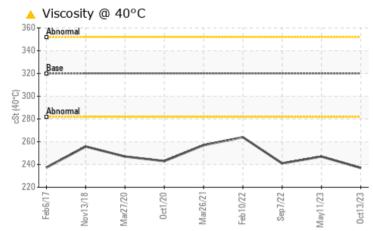


## **PROBLEM SUMMARY**

### Area MELT SHOP - SGP Machine Id NORTHSIDE GRINDER SOUTH GEARBOX (S/N 15-4000-0820) Component

Gearbox Fluid 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>	<b>4</b> 247	<u> </u>	

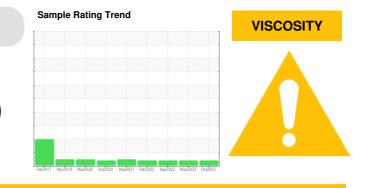
Customer Id: OUTCALAL Sample No.: RP0038344 Lab Number: 05979822 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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**

### 11 May 2023 Diag: Don Baldridge





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.



### 07 Sep 2022 Diag: Doug Bogart



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





### 10 Feb 2022 Diag: Angela Borella

oil type. The AN level is acceptable for this fluid.



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**

### Area MELT SHOP - SGP Machine Id NORTHSIDE GRINDER SOUTH GEARBOX (S/N 15-4000-0820) Component

Gearbox Fluid

EP 320 (--- QTS)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

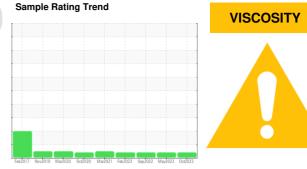
All component wear rates are normal.

### Contamination

The water content is negligible. There is no indication of any contamination in the oil.

### Fluid Condition

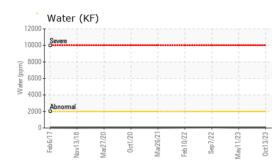
Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

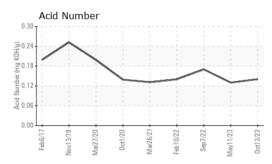


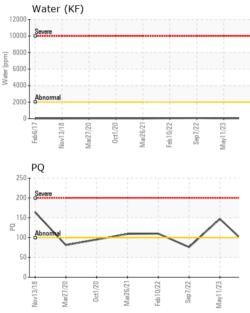
SAMPLE INFORM		method	limit/base	current	history1	history2
			mmubase			
Sample Number		Client Info		RP0038344	RP0035100	RP0029741
Sample Date		Client Info		13 Oct 2023	11 May 2023	07 Sep 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		74	147	76
Iron	ppm	ASTM D5185m	>200	93	127	119
Chromium	ppm	ASTM D5185m	>15	1	1	<1
Nickel	ppm	ASTM D5185m	>15	2	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	<1
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>200	3	0	0
Tin	ppm	ASTM D5185m	>25	0	<1	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		0	0	0
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		1	2	1
Magnesium	ppm	ASTM D5185m		1	0	0
Calcium	ppm	ASTM D5185m		85	110	106
Phosphorus	ppm	ASTM D5185m		218	264	250
Zinc	ppm	ASTM D5185m		80	31	63
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	3	3
Sodium	ppm	ASTM D5185m		2	6	5
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304	>0.2	0.004	0.003	0.006
ppm Water	ppm	ASTM D6304	>2000	42.2	38.9	68.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
				0.14	0.13	



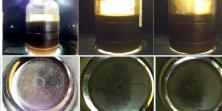
# **OIL ANALYSIS REPORT**



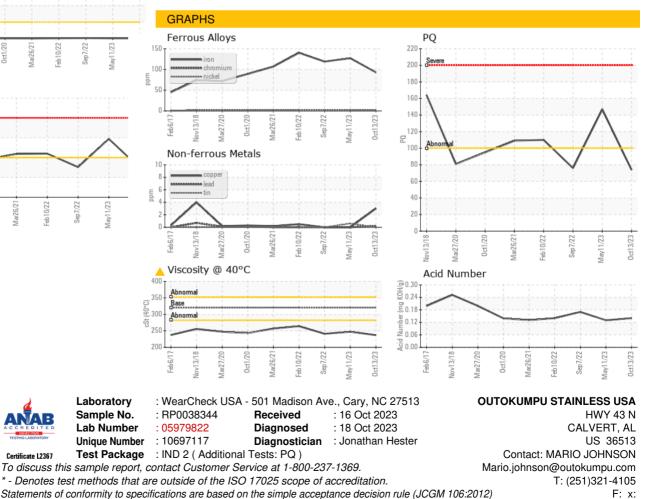




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	<b>A</b> 237	<b>4</b> 247	<b>4</b> 241
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color Color						



Bottom



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

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Submitted By: DALE ROBINSON

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