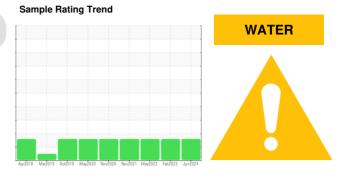


# **OIL ANALYSIS REPORT**

# MELT SHOP - LTS **BCA 1526 M4**

Component Gearbox

{not provided} (--- QTS)



### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is a light concentration of water present in the

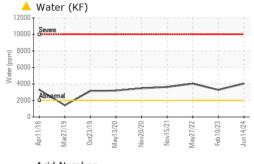
### **Fluid Condition**

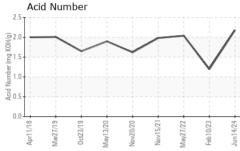
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

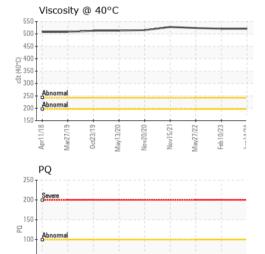
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044063	RP0030678	RP0026491
Sample Date		Client Info		14 Jun 2024	10 Feb 2023	27 May 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		31	30	37
Iron	ppm	ASTM D5185m	>200	0	<1	<1
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	2	1	1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	2	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		3	0	<1
Calcium	ppm	ASTM D5185m		0	<1	<1
Phosphorus	nnm	AOTAL DELOE				005
i nospiioius	ppm	ASTM D5185m		275	240	265
•	ppm	ASTM D5185m ASTM D5185m		275 23	240 15	16
•	ppm		limit/base			
Zinc	ppm	ASTM D5185m	limit/base >50	23	15	16
Zinc CONTAMINANTS	ppm	ASTM D5185m method		23 current	15 history1	16 history2
Zinc  CONTAMINANTS  Silicon  Sodium	ppm ppm	ASTM D5185m  method  ASTM D5185m		current 5	15 history1	16 history2
Zinc  CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m	>50	current 5 0	15 history1 3 0	16 history2 3 0
Zinc  CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m	>50 >20	23	15 history1 3 0 <1	16 history2 3 0 1
Zinc  CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm	Method ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>50 >20 >0.2	23  current  5 0 4  0.404	15  history1  3 0 <1  0.328	16 history2 3 0 1 • 0.403
Zinc  CONTAMINANTS  Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D6304  ASTM D6304	>50 >20 >0.2 >2000	23  current  5  0  4  0.404  4049	15  history1  3 0 <1  0.328  3282.1	16  history2  3  0  1  0.403  4035.2



## **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
<b>Emulsified Water</b>	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		521	521	524
SAMPLE IMAGES	method	limit/base	current	historv1	historv2	

Color		
Bottom		



G	RAPH	S																
Fe	rrous	Alloys	6						220 -	PQ								
8	resesses Cl	on nromium ickel	}						200 - 200 - 180 -	Severe								
2								and the state of t	160-									
Apr11/18	Mar27/19	Oct23/19	May13/20	Nov20/20	Nov15/21-	May27/22	Feb10/23	Jun14/24	140 · 120 · OL	Ahnor	mal							
No	on-ferr	ous N	1etals	6					100 - 80 -	Abnor	IIIai							-
8-	co	opper							60 -									
4	til	n							40 -	-						_	_	
2	and the second second	Market Strange Strange	Diagonalana			The state of the s	The same of the sa		20 -									
Apr11/18	Mar27/19 -	Oct23/19 -	May13/20 -	Nov20/20	Nov15/21-	May27/22 -	Feb10/23	Jun14/24	01	Apr11/18	Mar27/19 +	0ct23/19	May13/20	Nov20/20	Nov15/21	May27/22	Feb10/23	Jun14/24
Vi 00	scosity	@ 4	0°C									nber	_			_		
00-									Acid Number (mg KOH/g) 9.0 - 1.5 9.0 - 2.5			_	_	<u> </u>	_	_	<b>\</b>	/
00 - 1	onormal onormal	6	02	02	21+	22	23	24	Acid Numb	80	6	6	02	02	21	22	23	24





Certificate 12367

Laboratory Sample No.

: RP0044063 Lab Number : 06212502 Unique Number : 11085366

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

: 17 Jun 2024 : 19 Jun 2024 Diagnosed

: 19 Jun 2024 - Angela Borella 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** 

HWY 43 N CALVERT, AL US 36513

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: OUTCALAL [WUSCAR] 06212502 (Generated: 06/21/2024 07:33:39) Rev: 1

Submitted By: DALE ROBINSON