

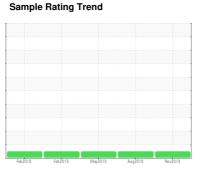
## **OIL ANALYSIS REPORT**

# Plate Mill/166 Hot Mill

#1 LUBE SYSTEM (PLS005) (S/N 1000001259)

**Gear Lube System** 

GEAR OIL ISO 460 (--- GAL)





### DIAGNOSIS

#### 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

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.

		Feb2018	FebZ019	May2019 Aug2019	Nov2019	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0361441	WC0361693	WC0311174
Sample Date		Client Info		18 Nov 2019	14 Aug 2019	21 May 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		8	10	25
Iron	ppm	ASTM D5185(m)	>150	25	29	25
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>10	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	3	2
Lead	ppm	ASTM D5185(m)	>100	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>50	2	2	1
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Antimony	ppm	ASTM D5185(m)		<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	50	6	8	10
Barium	ppm	ASTM D5185(m)	15	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	15	<1	0	<1
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	50	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	50	8	10	11
Phosphorus	ppm	ASTM D5185(m)	350	271	294	291
Zinc	ppm	ASTM D5185(m)	100	2	2	1
Sulfur	ppm	ASTM D5185(m)	12500	10487	10405	10195
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	2	2	2
Sodium	ppm	ASTM D5185(m)		0	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A -! -! Niconala - o (ANI)	1/011/	4 OT1 4 DOT4*	0.05	0.570	0.500	0.445

0.578

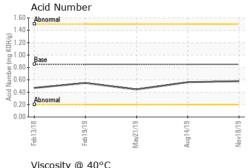
Acid Number (AN) mg KOH/g ASTM D974\* 0.85

0.562

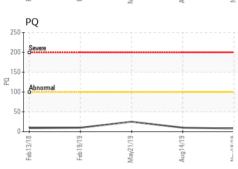
0.445



## **OIL ANALYSIS REPORT**



	ty @ 40°0			
Abnormal				
500				
480				
(0-0+) 460 Base				
₹ 460 - Base				-
440				
Abnormal				
400		-		
Feb13/18	Feb 19/19	May21/19	Aug14/19	Nov18/19
<u> </u>	듄	llay2	lgu/	lov1
		2	4	

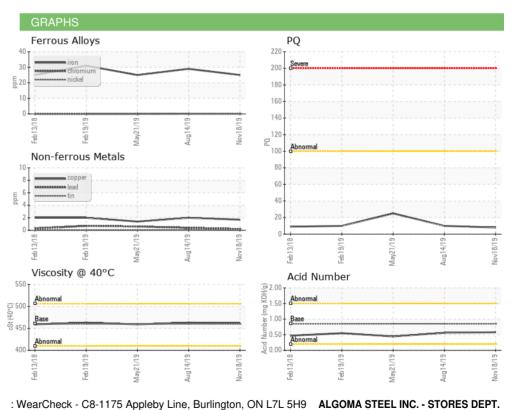


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2

I LOID I NOI LIN	TILO	memou			HISTOLAL	HISTOLYZ
Visc @ 40°C	cSt	ASTM D7279(m)	460	462	463	459

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					









Laboratory Sample No.

Lab Number : 02321863

: WC0361441

Received **Tested** Unique Number : 4965161 Diagnosed Test Package : IND 2 (Additional Tests: TAN Man)

: 21 Nov 2019 : 22 Nov 2019 : 22 Nov 2019 - Wes Davis

301 WALLACE TERRACE SAULT STE MARIE, ON

**CA P6C 1K8** Contact: Algoma Reliability algomareliability@algoma.com T: (705)206-1059

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: (705)945-3585