

OIL ANALYSIS REPORT

Area **Plate Mill/166 Hot Mill** Machine Id **2 HI ROLL BALANCE HYD (PLS065) (S/N 1000001341)** Component

Hydraulic System

FIRE-RESISTANT FLUID ISO 32 (--- 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. We recommend you service the filters on this component. 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

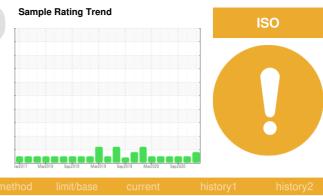
All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable. The water concentration level is acceptable for this fluid. The condition of the oil is suitable for further service.

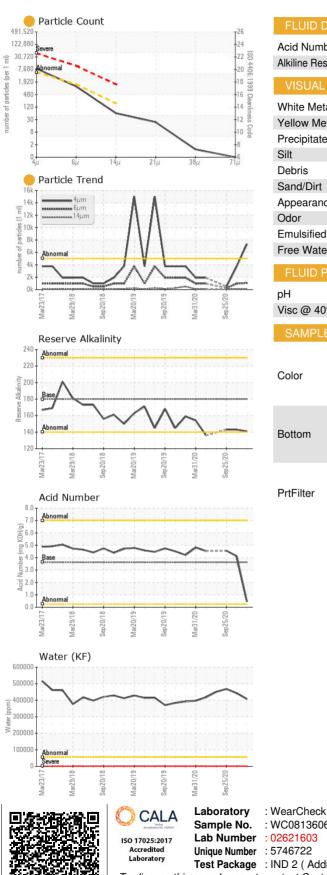


SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0813606	WC0496432	WC0494798
Sample Date		Client Info		08 Mar 2024	23 Jan 2021	25 Sep 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)		<1	5	0
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	0	1	0
Copper	ppm	ASTM D5185(m)	>20	0	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	<1	0
Antimony	ppm	ASTM D5185(m)		<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	<1	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	2	4	4
Barium	ppm	ASTM D5185(m)	5	<1	0	<1
Molybdenum	ppm	ASTM D5185(m)	5	0	<1	1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	5	0	1	<1
Calcium	ppm	ASTM D5185(m)	50	<1	6	<1
Phosphorus	ppm	ASTM D5185(m)	175	2	2	0
Zinc	ppm	ASTM D5185(m)	62	0	2	<1
Sulfur	ppm	ASTM D5185(m)	500	57	42	33
Lithium	ppm	ASTM D5185(m)		<1	0	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	<1	<1
Sodium	ppm	ASTM D5185(m)		25	56	31
Potassium	ppm	ASTM D5185(m)	>20	19	36	15
Water	%	ASTM D6304*	>55	40.7	44.2	46.8
ppm Water	ppm	ASTM D6304*	>55000	407000	442000	468000
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Dortiolog , Aum			. E000	7050	0750	490

FLUID GLEANLINESS	methoa	iimit/base	current	nistory i	nistory2
Particles >4µm	ASTM D7647	>5000	7359	3750	480
Particles >6µm	ASTM D7647	>1300	1043	970	240
Particles >14µm	ASTM D7647	>160	54	60	60
Particles >21µm	ASTM D7647	>40	20	7	7
Particles >38µm	ASTM D7647	>10	1	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/17/13	19/17/13	16/15/13



OIL ANALYSIS REPORT



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	3.63	0.45	4.13	4.56
Alkiline Reserve (Oils)	ml KOH/g	ASTM D1121*		141	143	143
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	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	FRGLY	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>55	>10%	>10%	>10%
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
pН	Scale 0-14	ASTM D1287*		9.55	9.47	9.46
Visc @ 40°C	cSt	ASTM D7279(m)	32	40.4	36.9	33.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter				no image		

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: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ALGOMA STEEL INC. - STORES DEPT. : WC0813606 Received : 12 Mar 2024 301 WALLACE TERRACE Tested : 14 Mar 2024 SAULT STE MARIE, ON Diagnosed : 14 Mar 2024 - Kevin Marson CA P6C 1K8 Test Package : IND 2 (Additional Tests: KF, pH, ReserveAlk, TAN Man) Contact: Algoma Reliability To discuss this sample report, contact Customer Service at 1-800-268-2131. algomareliability@algoma.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (705)206-1059 Validity of results and interpretation are based on the sample and information as supplied. F: (705)945-3585