

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



#1 BACKWASH PUMP

Component

Pump Hydraulic System

SHELL TURBO T ISO 68 (--- GAL)

DI			

Recommendation

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component(unconfirmed).

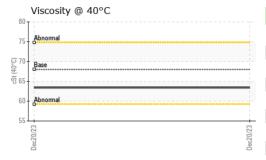
Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2							
Sample Number Client Info WC0659250			1		Dec2023		
Sample Date	SAMPLE INFORM	NOITAN	method				history2
Sample Date Client Info 20 Dec 2023	Sample Number		Client Info		WC0659250		
Dil Age	Sample Date		Client Info		20 Dec 2023		
CONTAMINATION	Machine Age	hrs	Client Info		0		
CONTAMINATION method limit/base current history1 history2	Oil Age	hrs	Client Info		0		
Water WC Method So.0.5 NEG So.0.5 So.0.5 NEG So.0.5 So.0.5 NEG So.0.5 So.0.	Oil Changed		Client Info		N/A		
Water WC Method >0.05 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 1 Chromium ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >20 <1 Titanium ppm ASTM D5185(m) >20 <1 Silver ppm ASTM D5185(m) >20 <1 Aluminum ppm ASTM D5185(m) >20 0 Lead ppm ASTM D5185(m) >20 0 Copper ppm ASTM D5185(m) >20 0 Chadium ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 </td <td>Sample Status</td> <td></td> <td></td> <td></td> <td>NORMAL</td> <td></td> <td></td>	Sample Status				NORMAL		
WEAR METALS	CONTAMINATION	V	method	limit/base	current	history1	history2
Chromium ppm ASTM D5185(m) >20 1	Water		WC Method	>0.05	NEG		
Chromium ppm ASTM D5185(m) >20 0 Nickel ppm ASTM D5185(m) >20 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)	>20	1		
Titanium	Chromium	ppm	ASTM D5185(m)	>20	0		
Silver	Nickel	ppm	ASTM D5185(m)	>20	<1		
Aluminum	Titanium	ppm	ASTM D5185(m)		0		
Lead	Silver	ppm	ASTM D5185(m)		0		
Copper ppm ASTM D5185(m) >20 0 Tin ppm ASTM D5185(m) >20 0 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) <1	Aluminum	ppm	ASTM D5185(m)	>20	<1		
Tin	Lead	ppm	ASTM D5185(m)	>20	0		
Antimony	Copper	ppm	ASTM D5185(m)	>20	0		
Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) <1 Magnesium ppm ASTM D5185(m) <1 Calcium ppm ASTM D5185(m) 8 Phosphorus ppm ASTM D5185(m) 1 Sulfur ppm ASTM D5185(m) 141 CONTAMINANTS method limit/base current h	Tin	ppm	ASTM D5185(m)	>20	0		
Description	Antimony	ppm	ASTM D5185(m)		0		
Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) <1	Vanadium	ppm	ASTM D5185(m)		0		
ADDITIVES	Beryllium	ppm	ASTM D5185(m)		0		
Boron ppm ASTM D5185(m) 0	Cadmium	ppm	ASTM D5185(m)		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) <1 Calcium ppm ASTM D5185(m) 8 Phosphorus ppm ASTM D5185(m) 1 Zinc ppm ASTM D5185(m) 141 Sulfur ppm ASTM D5185(m) <1 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 Sodium ppm ASTM D5185(m) 0	Boron	ppm	ASTM D5185(m)		0		
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) <1	Barium	ppm	ASTM D5185(m)		0		
Magnesium ppm ASTM D5185(m) <1 Calcium ppm ASTM D5185(m) <1	Molybdenum	ppm	ASTM D5185(m)		0		
Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 8 Zinc ppm ASTM D5185(m) 1 Sulfur ppm ASTM D5185(m) 141 Lithium ppm ASTM D5185(m) <1	Manganese	ppm	ASTM D5185(m)		0		
Phosphorus ppm ASTM D5185(m) 8 Zinc ppm ASTM D5185(m) 1 Sulfur ppm ASTM D5185(m) 141 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 Sodium ppm ASTM D5185(m) 0	Magnesium	ppm	ASTM D5185(m)				
Zinc ppm ASTM D5185(m) 1 Sulfur ppm ASTM D5185(m) 141 Lithium ppm ASTM D5185(m) <1	Calcium	ppm	ASTM D5185(m)		<1		
Sulfur ppm ASTM D5185(m) 141 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 Sodium ppm ASTM D5185(m) 0	Phosphorus	ppm	ASTM D5185(m)				
Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 Sodium ppm ASTM D5185(m) 0	Zinc	ppm	ASTM D5185(m)		1		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 Sodium ppm ASTM D5185(m) 0	Sulfur	ppm	ASTM D5185(m)		141		
Silicon ppm ASTM D5185(m) >15 0 Sodium ppm ASTM D5185(m) 0	Lithium	ppm	ASTM D5185(m)		<1		
Sodium ppm ASTM D5185(m) 0	CONTAMINANTS	;	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185(m) 0	Silicon	ppm	ASTM D5185(m)	>15	0		
Potassium ppm ASTM D5185(m) >20 2	Sodium		ASTM D5185(m)		0		
	Potassium		. ,	>20	2		



OIL ANALYSIS REPORT



VISUAL		method				history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	VLITE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.05	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68	63.4		

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
CDADUC					

Bottom			no image	no image
GRAPHS				
Iron (ppm)		Lead (ppm)		
60 Severe		Severe		
Abnomal		Abnormal		
0	3	0		3
Dec20/23	Dec20/23	Dec20/23		Dec20/23
Aluminum (ppm)		Chromium (pp	pm)	
Severe		Severe		
Abnormal		Abnormal		
0		0		3
Dec20/23	Dec20/23	Dec20/23		Dec20/23
Copper (ppm)		Silicon (ppm)		
60 Severe		60 Severe		
Abnormal		20 Abnormal		
0		0		
Dec20/23	Dec20/23	Dec20/23)ec20/23
	9	_		9
Viscosity @ 40°C		Additives		
Abnomal Base Abnomal		calcium phosphorus	s	

50 + 50/2/	1/23	0/23 0		1/23
Dec20/23	Dec20/23	Dec20/2:		Dec20/23



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5706977 Test Package : MOB 1

: WC0659250 : 02605891

Recieved Diagnosed Diagnostician : Wes Davis

: 02 Jan 2024 : 02 Jan 2024

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ALGOMA STEEL INC. - STORES DEPT. 301 WALLACE TERRACE SAULT STE MARIE, ON

CA P6C 1K8 Contact: Algoma Reliability

T: (705)206-1059

F: (705)945-3585

algomareliability@algoma.com

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.