

OIL ANALYSIS REPORT

Area **#7 Blast Furnace** CLAYGUN HYD (IRN037) (S/N

Hydraulic System

HOUGHTON HOUGHTO-SAFE 620 (5000 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

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.

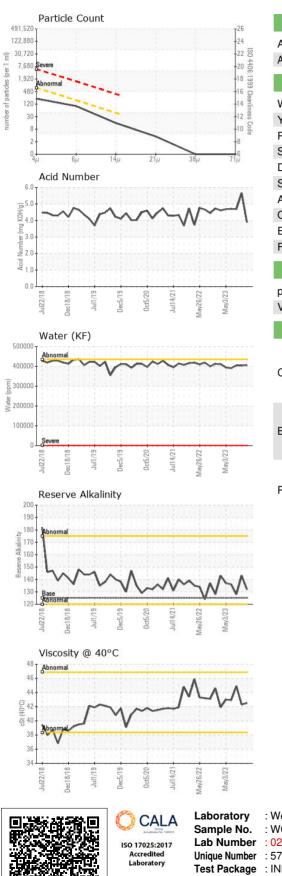
YSIS REPC	DRT				N	IORMAL
/N 1000032	769)					
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TO		ulu	······lı			
.TR)		i2018 Dec20	18 Jul2019 Dec2019	0ct2020 Jul2021 May2022	May2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0780659	WC0780651	WC0689833
Sample Date		Client Info		11 Apr 2024	14 Jan 2024	23 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A NORMAL	N/A SEVERE	N/A ATTENTION
Sample Status				-		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	0	0
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel Titanium	ppm	ASTM D5185(m) ASTM D5185(m)	>20	0	0	0
Silver	ppm ppm	ASTM D5185(m) ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	0	0	0
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>20	<1	0	0
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
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)		0	1	1
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese Magnesium	ppm ppm	ASTM D5185(m) ASTM D5185(m)		0	0	<1
Calcium	ppm	ASTM D5185(m)		0	<1	1
Phosphorus	ppm	ASTM D5185(m)		0	1	2
Zinc	ppm	ASTM D5185(m)		<1	0	0
Sulfur	ppm	ASTM D5185(m)		2	59	59
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	<1	<1
Sodium	ppm	ASTM D5185(m)		0	24	24
Potassium	ppm	ASTM D5185(m)	>20	<1	25	28
Water	%	ASTM D6304*	>43.5	40.6	40.4	40.5
ppm Water	ppm	ASTM D6304*	>435000	406000	404000	405000
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	191	4 081	480
Particles >6µm		ASTM D7647	>160	85	1 340	240
Particles >14µm		ASTM D7647	>40	13	2 05	60
Particles >21µm		ASTM D7647	>10	3	▲ 107	7
Particles >38µm		ASTM D7647	>3	0	▲ 24 0	0
Particles >71µm Oil Cleanliness		ASTM D7647 ISO 4406 (c)	>3 >16/14/12	0 15/14/11	0	0
Un Oleanniness		100 4400 (C)	210/14/12	13/14/11	- 19/10/13	- 10/10/10

Sample Rating Trend

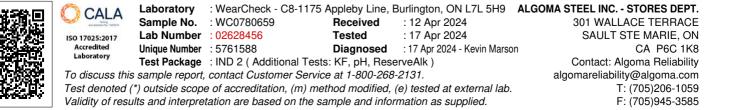
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FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		3.89	5.66	4.69
Alkiline Reserve (Oils)	ml KOH/g	ASTM D1121*	125	132	143	128
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	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	FRGLY	FRGLY	FRGLY
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>43.5	>10%	>10%	>10%
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTI	IES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287*		9.64	9.63	9.49
Visc @ 40°C	cSt	ASTM D7279(m)		42.5	42.3	44.9
SAMPLE IMAGES	1	method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter				no image	no image	0



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