

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

## **FURNACE MAIN** Component Hydraulic System

KOST ACHIEVAL FRH 46 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

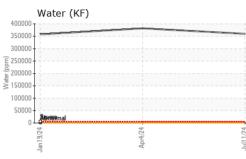
### Fluid Condition

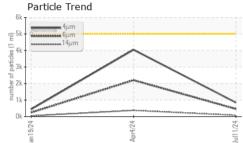
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

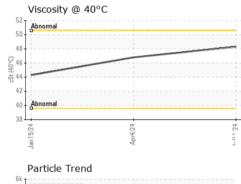
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107876	PCA0107869	PCA0107864
Sample Date		Client Info		11 Jul 2024	04 Apr 2024	19 Jan 2024
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	2	0
Chromium	ppm	ASTM D5185m	>20	0	1	0
Nickel	ppm	ASTM D5185m	>20	0	1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	12	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	1	0
Tin	ppm	ASTM D5185m	>20	0	1	<1
Vanadium	ppm	ASTM D5185m		0	2	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	1
Calcium	ppm	ASTM D5185m		0	3	1
Phosphorus	ppm	ASTM D5185m		7	8	<1
Zinc	ppm	ASTM D5185m		0	5	7
Sulfur	ppm	ASTM D5185m		0	0	0
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	3	0
Sodium	ppm	ASTM D5185m		0	41	0
Potassium	ppm	ASTM D5185m	>20	0	7	<1
Water	%	ASTM D6304		36.0	38.2	35.8
ppm Water	ppm	ASTM D6304	>500	360000	382000	358000
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	844	4045	444
Particles >6µm		ASTM D7647	>1300	460	<u> </u>	242
Particles >14µm		ASTM D7647	>160	78	<b>A</b> 375	41
Particles >21µm		ASTM D7647	>40	26	<b>1</b> 26	14
Particles >38µm		ASTM D7647	>10	4	<b>2</b> 0	2
Particles >71µm		ASTM D7647		0	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/13	▲ 19/18/16	16/15/13

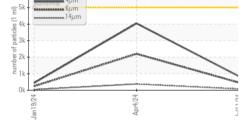


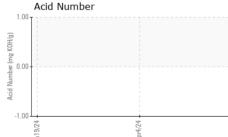
# **OIL ANALYSIS REPORT**









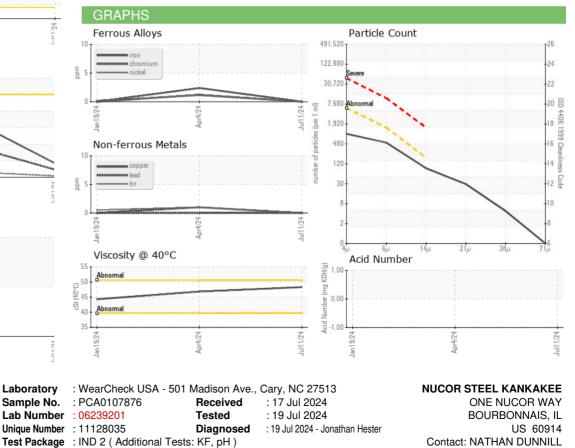


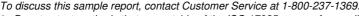




Bottom

Color





\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: NUCBOUIL [WUSCAR] 06239201 (Generated: 07/21/2024 13:17:26) Rev: 1

Certificate 12367

Submitted By: JIM MACK

nathan.dunnill@nucor.com

T:

F: