

OIL ANALYSIS REPORT

Sample Rating Trend



CASTER MAIN

Hydraulic System Fluid 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.

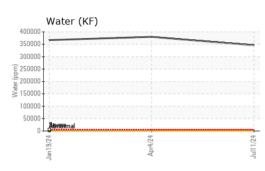
Fluid Condition

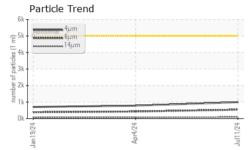
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

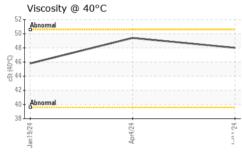
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107871	PCA0107859	PCA0107865
Sample Date		Client Info		11 Jul 2024	04 Apr 2024	19 Jan 2024
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	90
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	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	11	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	<1	<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	1	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		2	<1	1
Calcium	ppm	ASTM D5185m		<1	3	1
Phosphorus	ppm	ASTM D5185m		8	9	4
Zinc	ppm	ASTM D5185m		<1	3	6
Sulfur	ppm	ASTM D5185m		4	0	0
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	3	<1
Sodium	ppm	ASTM D5185m		0	42	0
Potassium	ppm	ASTM D5185m	>20	0	5	1
Water	%	ASTM D6304	>0.05	34.6	38.0	36.7
ppm Water	ppm	ASTM D6304	>500	346000	380000	367000
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	992	783	705
Particles >6µm		ASTM D7647		540	426	384
Particles >14µm		ASTM D7647	>160	92	73	65
Particles >21µm		ASTM D7647	>40	31	24	22
Particles >38µm		ASTM D7647	>10	5	4	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/16/14	17/16/13	17/16/13

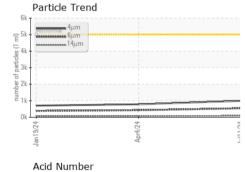


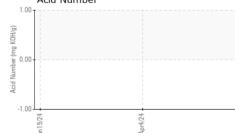
OIL ANALYSIS REPORT











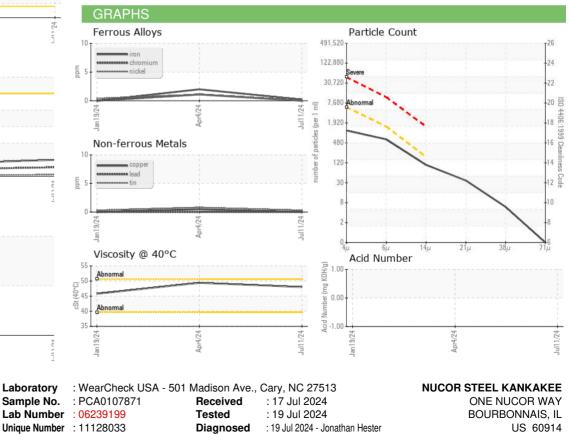


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		9.00	11.0	9.00
Visc @ 40°C	cSt	ASTM D445		48.0	49.4	45.8
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



Test Package : IND 2 (Additional Tests: KF, pH) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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] 06239199 (Generated: 07/21/2024 13:17:09) Rev: 1

Certificate 12367

Submitted By: JIM MACK Page 2 of 2

T:

F:

Contact: NATHAN DUNNILL

nathan.dunnill@nucor.com