

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id TUNDISH TURNER

Component Hydraulic System Fluid KOST ACHIEVAL FRH 46 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

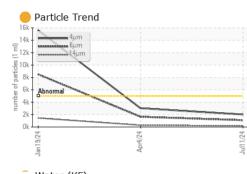
The pH level of this fluid is within the acceptable limits at 9.0. The condition of the oil is acceptable for the time in service.

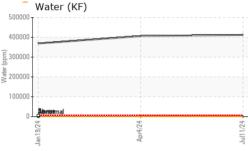
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107875	PCA0107868	PCA0107866
Sample Date		Client Info		11 Jul 2024	04 Apr 2024	19 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	90
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ABNORMAL
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	<1	1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
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		0	<1	1
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		1	<1	<1
Calcium	ppm	ASTM D5185m		0	3	2
Phosphorus	ppm	ASTM D5185m		2	9	3
Zinc	ppm	ASTM D5185m		0	5	8
Sulfur	ppm	ASTM D5185m		1	0	20
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	3	<1
Sodium	ppm	ASTM D5185m		1	37	0
Potassium	ppm	ASTM D5185m	>20	<1	6	<1
Water	%	ASTM D6304	>0.05	41.2	40.6	36.9
ppm Water	ppm	ASTM D6304	>500	412000	406000	369000
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	2018	3028	1 5607
Particles >6µm		ASTM D7647	>1300	1099	649	▲ 8502
Particles >14µm		ASTM D7647	>160	<mark> </mark> 187	281	🔺 1447
Particles >21µm		ASTM D7647	>40	<mark> </mark> 63	95	4 87
Particles >38µm		ASTM D7647	>10	10	1 5	1 75
Particles >71µm		ASTM D7647	>3	1	1	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>19/17/14	e 18/17/15	9/18/15	▲ 21/20/18

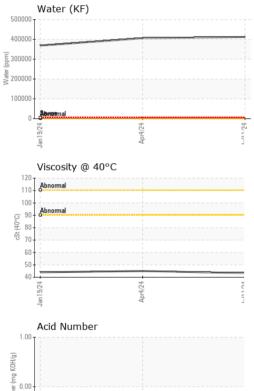
ISO



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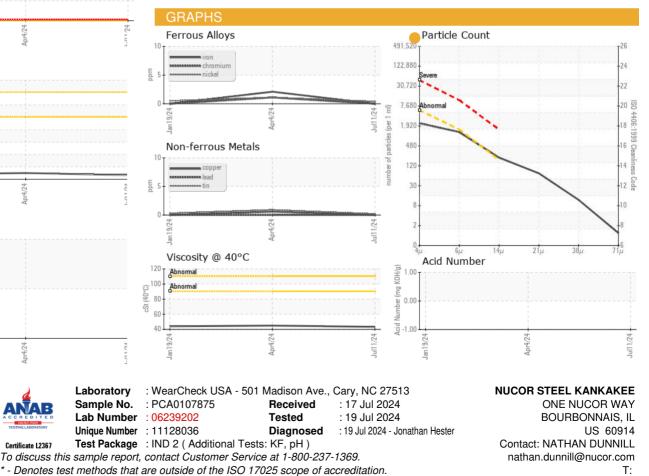
Acid 1

-1.0

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 PROPE	RTIES	method	limit/base	current	history1	history2
рН	Scale 0-14	ASTM D1287		9.00	11.0	9.00
Visc @ 40°C	cSt	ASTM D445		43.3	45.0	44.0
SAMPLE IMAG	iES	method	limit/base	current	history1	history2

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)

Certificate 12367

Submitted By: JIM MACK Page 2 of 2

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