

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **STIR STATION** 

Component Hydraulic System

**KOST ACHIEVAL FRH 46 (--- GAL)** 

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

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.

Jan2024 Apr2024 Jul2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107873	PCA0107858	PCA0107863
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	ABNORMAL
WEAR METALS	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	11	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
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	1
Phosphorus	ppm	ASTM D5185m		2	9	2
Zinc	ppm	ASTM D5185m		0	3	9
Sulfur	ppm	ASTM D5185m		0	0	0
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	3	0
Sodium	ppm	ASTM D5185m		<1	43	0
Potassium	ppm	ASTM D5185m	>20	0	6	<1
Water	%	ASTM D6304	>0.05	34.6	23.3	29.9
ppm Water	ppm	ASTM D6304	>500	346000	233000	299000
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	400	1061	4515
Particles >6µm		ASTM D7647	>1300	218	578	<u>^</u> 2460
Particles >14µm		ASTM D7647	>160	37	98	<b>▲</b> 419
Particles >21μm		ASTM D7647	>40	12	33	<u> </u>
Particles >38µm		ASTM D7647	>10	2	5	<u>^</u> 22
Particles >71μm		ASTM D7647	>3	0	1	<u>^</u> 2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/12	17/16/14	▲ 19/18/16



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Certificate 12367

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0107873 : 06239203 Unique Number : 11128037

Received **Tested** Diagnosed : 17 Jul 2024

: 19 Jul 2024

: 19 Jul 2024 - Jonathan Hester

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)

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