

## **OIL ANALYSIS REPORT**

## Area HC-SYN-5 **KAISHAN 371810821U**

Component Compressor

### DIAGNOSIS

#### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Apr2024		
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		UHC06185168		
Sample Date		Client Info		26 Apr 2024		
Machine Age	hrs	Client Info		16298		
Oil Age	hrs	Client Info		3041		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	1		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>50	<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		7		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		233		
Zinc	ppm	ASTM D5185m		11		
Sulfur	ppm	ASTM D5185m		0		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	2		

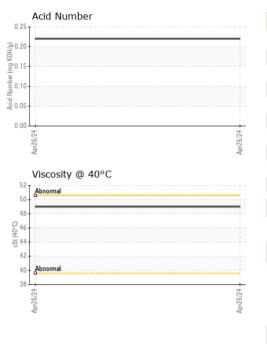
Sample Rating Trend

FLUID DEGRADATION Acid Number (AN) mg KOH/g ASTM D8045 0.22

### NORMAL



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	MODER		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Apr26/24	Appearance	scalar	*Visual	NORML	NORML		
Ap	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER		method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		49.0		
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Apr26/24	Color					no image	no image
	Bottom					no image	no image
	E 6+						
	Non-ferrous Meta			Apr26/24			
	Non-ferrous Meta	als		Apr26/24			
	Non-ferrous Meta	als		Apr26/24	Acid Number		
	Non-ferrous Meta Non-ferrous Meta lead Viscosity @ 40°C	als		Apr26/24	Acid Number		
	Non-ferrous Meta	als		Apr26/24	Acid Number		
	Non-ferrous Meta	als		Apr26/24	Acid Number		
	Non-ferrous Meta	als		Apr26/24	Acid Number		
	Non-ferrous Meta	als		Apr26/24			
	Non-ferrous Meta Non-ferrous Meta Copper lead Viscosity @ 40°C	als		Apr26/24 Apr26/	Acid Number		
Laboratory Sample No. Lab Number Unique Number Test Package	Non-ferrous Meta Non-ferrous Meta Copper Lead Viscosity @ 40°C Cop45 Cop4	als	on Ave., Cary ived : 20	Apr26/24 Apr26/24 0000 Acid Number (mg KOH/g) 0700 Acid Number (mg KOH/g) 0700 Acid Number (mg KOH/g)	Ap/26/24		

\* - 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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