

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 



# 7955811 (S/N 7745)

Component

Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

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

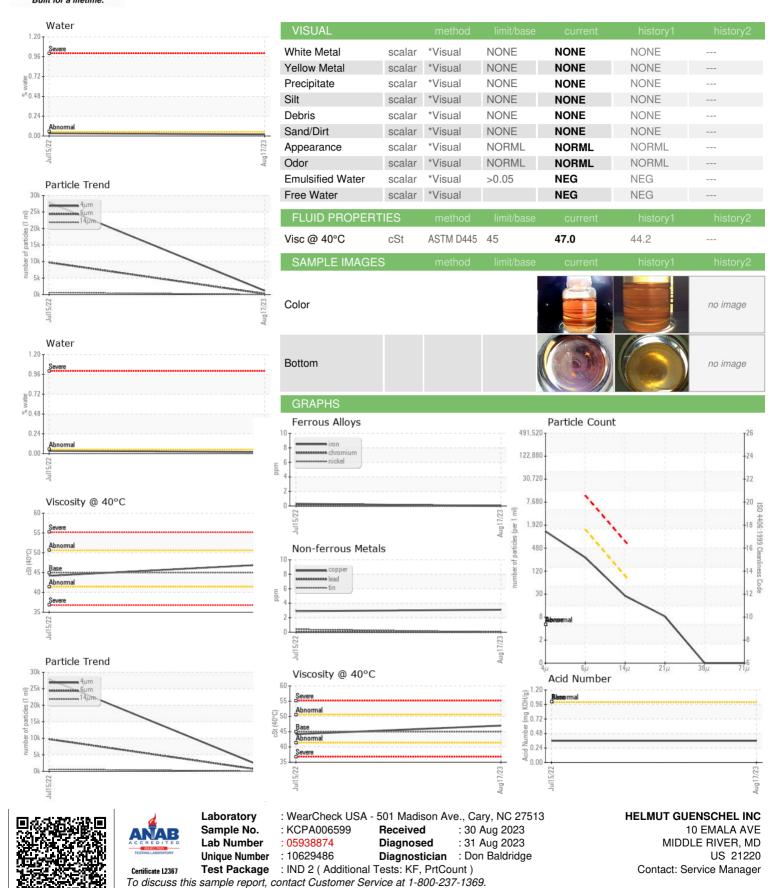
## **Fluid Condition**

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

			Jul2022	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA006599	KCP49753	
Sample Date		Client Info		17 Aug 2023	15 Jul 2022	
Machine Age	hrs	Client Info		3288	1418	
Oil Age	hrs	Client Info		0	1418	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m		<1	0	
Lead		ASTM D5185m	>10	0	0	
	ppm		>50	3	3	
Copper Tin	ppm	ASTM D5185m	>10	0		
	ppm		>10		<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	
Barium	ppm	ASTM D5185m	90	0	9	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	100	48	54	
Calcium	ppm	ASTM D5185m	0	0	0	
Phosphorus	ppm	ASTM D5185m	0	<1	4	
Zinc	ppm	ASTM D5185m	0	0	0	
Sulfur	ppm	ASTM D5185m	23500	22093	16331	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	
Sodium	ppm	ASTM D5185m		13	22	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.05	0.020	0.033	
ppm Water	ppm	ASTM D6304	>500	204.5	333.7	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1154	27877	
Particles >6µm		ASTM D7647	>1300	240	<b>△</b> 9728	
Particles >14µm		ASTM D7647	>80	24	<b>△</b> 590	
Particles >21µm		ASTM D7647	>20	7	<u>44</u>	
Particles >38µm		ASTM D7647	>4	0	1	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/15/12	△ 22/20/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.36	0.36	
AGIO INGILIDEI (AIN)	my NOTI/9	70 LINI D0040	1.0	0.50	0.00	



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\* - 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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