

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

5199858 (S/N 1559)

Compressor

KAESER SIGMA (OEM) M-460 (--- 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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		,	0ct2021	May2023	, 	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP53760	KCP38700	
Sample Date		Client Info		16 May 2023	11 Oct 2021	
Machine Age	hrs	Client Info		44414	28187	
Oil Age	hrs	Client Info		1	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	<1	<1	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>10	<1	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	6	0	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 <1	history2
	ppm					
Boron		ASTM D5185m	0	0	<1	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	0	<1 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	0 0 0	<1 0 0	
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0	0 0 0 <1	<1 0 0 0	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0	0 0 0 <1 2	<1 0 0 0 0 <1 1 6	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100 0	0 0 0 <1 2	<1 0 0 0 0 <1 1 6	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100 0	0 0 0 <1 2 0	<1 0 0 0 0 <1 1 6	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100 0 0	0 0 0 <1 2 0 1 4 24776	<1 0 0 0 0 <1 1 6	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100 0 0 0 23500 limit/base	0 0 0 <1 2 0 1 4 24776	<1 0 0 0 <1 1 6 0	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 90 0 100 0 0 0 23500 limit/base	0 0 0 <1 2 0 1 4 24776	<1 0 0 0 0 <1 1 6 0 0	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 90 0 100 0 0 0 23500 limit/base	0 0 0 <1 2 0 1 4 24776 current <1 1	<1 0 0 0 0 <1 1 6 0 0 history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 90 0 100 0 0 23500 limit/base >25 >20 >0.05	0 0 0 -<1 2 0 1 4 24776 current <1 1 1 0.009	<1 0 0 0 <1 1 1 6 0 0 history1 <1 0 <1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m	0 90 0 100 0 0 0 23500 limit/base >25	0 0 0 <1 2 0 1 4 24776 current <1 1	<1 0 0 0 <1 1 6 0 0 history1 <1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 90 0 100 0 0 23500 limit/base >25 >20 >0.05	0 0 0 -<1 2 0 1 4 24776 current <1 1 1 0.009	<1 0 0 0 <1 1 1 6 0 0 history1 <1 0 <1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304	0 90 0 100 0 0 23500 limit/base >25 >20 >0.05 >500	0 0 0 -<1 2 0 1 4 24776 current <1 1 1 0.009 93.2	<1 0 0 0 0 <1 1 1 6 0 0 history1 <1 0 <1 0.423 4230	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304	0 90 0 100 0 0 0 23500 limit/base >25 >20 >0.05 >500 limit/base	0 0 0 -<1 2 0 1 4 24776 current <1 1 1 0.009 93.2 current	<1 0 0 0 0 <1 1 6 0 0 history1 <1 0 <1 0.423 4230 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D6304	0 90 0 100 0 0 0 23500 limit/base >25 >20 >0.05 >500 limit/base	0 0 0 -<1 2 0 1 4 24776 current -<1 1 1 0.009 93.2 current	<1 0 0 0 0 <1 1 6 0 0 history1 <1 0 <1 0.423 4230 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647	0 90 0 100 0 0 0 23500 limit/base >25 >20 >0.05 >500 limit/base	0 0 0 1 2 0 1 4 24776 current <1 1 0.009 93.2 current 1097 304	<1 0 0 0 0 <1 1 1 6 0 0 history1 <1 0 <1 0 423 4230 history1	history2 history2

FLUID DEGRADATION

Particles >38µm

Particles >71µm

Oil Cleanliness

ASTM D7647 >4

ASTM D7647 >3

ISO 4406 (c) >--/17/13

1

0

17/15/11



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