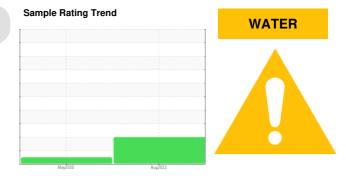


PROBLEM SUMMARY

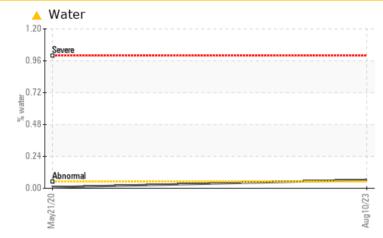


Machine Id 66666890 (S/N 1106) Component

Compressor Fluid



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC [*]	TEST RE	SULTS				
Sample Status				ABNORMAL	NORMAL	
Water	%	ASTM D6304	>0.05	A 0.063	0.008	
ppm Water	ppm	ASTM D6304	>500	<u> </u>	89.4	
Debris	scalar	*Visual	NONE	A MODER	NONE	
Emulsified Water	scalar	*Visual	>0.05	6.2%	NEG	

Customer Id: SONLAG Sample No.: KCPA004937 Lab Number: 05938283 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	Oil and filter change at the time of sampling has been noted.	
Change Filter			?	Oil and filter change at the time of sampling has been noted.	
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.	

HISTORICAL DIAGNOSIS



21 May 2020 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Machine Id 6666890 (S/N 1106) Component

Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA004937	KC72800	
Sample Date		Client Info		10 Aug 2023	21 May 2020	
Machine Age	hrs	Client Info		35369	10559	
Oil Age	hrs	Client Info		0	3924	
Oil Changed	1115	Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	-	history2
					history1	
Iron	ppm	ASTM D5185m		0	<1	
Chromium	ppm	ASTM D5185m		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	>10	<1	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	34	10	
Tin	ppm	ASTM D5185m	>10	0	<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
Boron	0000	ASTM D5185m		0	<1	
Barium	ppm	ASTM D5185m	00	3	0	
	ppm		90	0	<1	
Molybdenum	ppm	ASTM D5185m				
Manganese	ppm	ASTM D5185m	00	0	0	
Magnesium	ppm	ASTM D5185m	90	1	2	
Calcium	ppm	ASTM D5185m	2	0	<1	
Phosphorus	ppm	ASTM D5185m		0	23	
Zinc	ppm	ASTM D5185m		17	82	
Sulfur	ppm	ASTM D5185m		14593	16300	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	1	
Sodium	ppm	ASTM D5185m		0	1	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.05	A 0.063	0.008	
ppm Water	ppm	ASTM D6304		6 30	89.4	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			1743	
Particles >6µm		ASTM D7647	>1300		370	
Particles >14µm		ASTM D7647	>80		24	
Particles >21µm		ASTM D7647			12	
Particles >38µm		ASTM D7647	>4		0	
Particles >71µm		ASTM D7647			0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		16/12	
FLUID DEGRADA		method	limit/base			history
				current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.34	0.347	

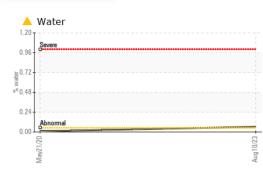
Report Id: SONLAG [WUSCAR] 05938283 (Generated: 08/31/2023 14:10:58) Rev: 1

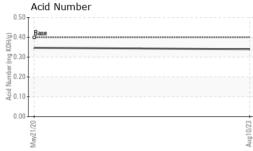
Contact/Location: Service Manager - SONLAG

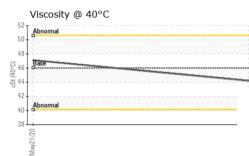


OIL ANALYSIS REPORT

VISUAL







Mite Metel		method	limit/base	current	nistory i	nistory2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	A MODER	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG	
Free Water	scalar	*Visual	20.00	NEG	NEG	
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.2	47.1	
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						no image
Bottom			1			no imago
Bottom					in a fair	no image
					and the second	
GRAPHS						
Ferrous Alloys						
o iron						
o thromium						
6 - management chromium						
6 4						
6						
c c c c c c c c c c c c c c c c c c c			0/23			
6 4 2 0			Aug 10/23			
6 4 2 8	ıls		Aug10/23			
Non-ferrous Meta	ıls		Aug10/23			
0 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0	ıls		Aug10/23			
0 00 002122 kg Non-ferrous Meta	nls		Aug10/23			
Non-ferrous Meta	als		Aug 10/23			
Non-ferrous Meta	lls		Aug10/23			
Non-ferrous Meta	lls					
Non-ferrous Meta	ils					
Non-ferrous Meta			Aug10/23	Asid Number		
Non-ferrous Meta			Aug10/23	Acid Number		
Non-ferrous Meta			Aug10/23	Acid Number		
Non-ferrous Meta			Aug10/23	Acid Number		
Non-ferrous Meta Non-ferrous Meta Viscosity @ 40°C			Aug10/23	Acid Number		
Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta			Aug10/23	Acid Number		
Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta			02.0.0 04.0 01.0 01.0 00.0 00.0 00.0 00.0	Base		
Non-ferrous Meta Non-ferrous Meta Viscosity @ 40°C			02.0.0 04.0 01.0 01.0 00.0 00.0 00.0 00.0	Base		a ¹ 023 -
Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta			Aug10/23	Acid Number		Aug 10/23
Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta		son Ave., Ca	Aug10/23 Aug10/23 Aug10/23 Aug10/23 Aug10/23 Aug10/23 Aug10/23 Aug10/23 Aug10/23	Base		
Non-ferrous Meta Non-ferrous Meta Non-fe		: 30 /	EZODI BINY EZODI BINY EZODI EZODI BINY EZODI BINY EZODI EZODI BINY EZODI EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI	Base	26061 N	ONENDO INC
Non-ferrous Meta Non-ferrous Meta Non-fe	501 Madia Received Diagnose	l : 30 / ed : 31 /	EZODI BHY ry, NC 27513 Aug 2023 Aug 2023	Base	26061 N	ONENDO INC MERIT CIR 102 INA HILLS, CA
Non-ferrous Meta Non-ferrous Meta Viscosity @ 40°C	501 Madia Received Diagnose	t : 30 / ed : 31 / ician : Dor	EZODI BINY EZODI BINY EZODI EZODI BINY EZODI BINY EZODI EZODI BINY EZODI EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI BINY EZODI	Base	26061 M LAGU	CONENDO INC IERIT CIR 102 INA HILLS, CA US 92653 ervice Managel

method limit/base

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)

Page 4 of 4

history2

history1

current

Certificate L2367

Laboratory

Sample No. Lab Number Unique Number Test Package