

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id T1-CH4 (S/N 10241E02917224Z)

Component Screw Compressor

Fluid ISEL ESTER GAS COMPRESSOR 6029-68 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

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

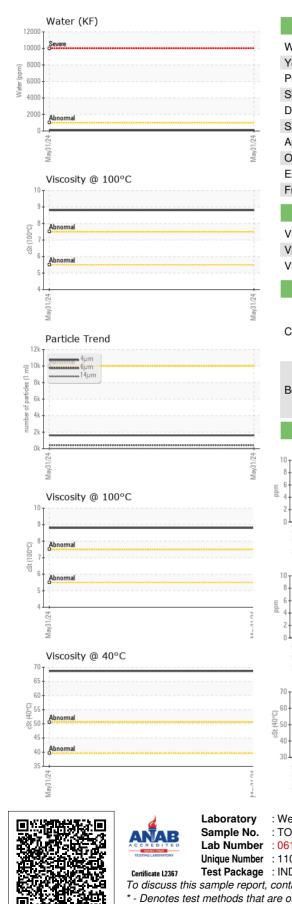
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10003188		
Sample Date		Client Info		31 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	0		
Chromium	ppm	ASTM D5185m	>4	<1		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>5	2		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm		>30	<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m	-	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		415		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		0		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.1	0.011		
ppm Water	ppm	ASTM D6304	>1000	112		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1603		
Particles >6µm		ASTM D7647	>2500	423		
Particles >14µm		ASTM D7647	>320	18		
Particles >21µm		ASTM D7647	>80	4		
Particles >38µm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.14		

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	VISUAL		method				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	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
May31/24	Appearance	scalar	*Visual	NORML	NORML		
Ma	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
1	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		68.6		
	Visc @ 100°C	cSt	ASTM D445		8.8		
	Viscosity Index (VI)	Scale	ASTM D2270		100		
	SAMPLE IMAGE	ES	method	limit/base	current	history1	history2
	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
24	Ferrous Alloys			491,520	Particle Count		7 26
May31/24	8 iron						
2	E 6 4			122,880	Severe		-24
	2			30,720			-22
					Abnormal		-20 3
	May31/24			May31/24 s (per 1 m		•	-18
				Ma cles (p			
	Non-ferrous Meta	als		otured 480			+16
	10						
	10 copper			a 120			-14
	8 - copper			May31/24 May31/24 150 150 170 10 10 10 10 10 10 10 10 10 10 10 10 10			-20 -18 -16 -14 -12
Vor 10	8 - copper			30			
<i>ис</i> те~-и	ead 2 0			8			-14 -12 -10
воте-м	ead 2 0			8			
ис с-ти	udd 2 0 +721 Every			30		14μ 21μ	
<i>истес-</i> ти	Viscosity @ 40°C	;		42/12/2 2		14μ 21μ	+10
act €cbA	Viscosity @ 40°C			42/12/2 2	μ 6μ	14μ 21μ	+10
AC T CM	Viscosity @ 40°C	:		42/12/2 2	μ 6μ	14μ 21μ	+10
ACTO-A	Viscosity @ 40°C	:		42/12/2 2	μ 6μ	14μ 21μ	+10
NOTOLIN	Viscosity @ 40°C			42/12/2 2	μ 6μ	14μ 21μ	+10
ν vu tr	Viscosity @ 40°C			400 8 400.015 90.000 90.00 90.00 90.000 90.00 90.00 90.00 90.00 90.00 90.00 90	Acid Number	14μ 21μ	
A0102-M	Viscosity @ 40°C	;		42/12/2 2	μ 6μ	14μ 21μ	+10
Paranan and and and and and and and and and	Viscosity @ 40°C			40 8 47 57 15/12 9 0.00 9 10 10 10 10 10 10 10 10 10 10 10 10 10	Acid Number		10 8 38µ 71µ
Taboratory Sample No.	Viscosity @ 40°C		i ved : 31	(0)100 100 100 100 100 100 100 100	Acid Number	14μ 21μ Γ ERA - MCCO	10 8 38µ 71µ
Sample No. Lab Number	Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Abnormal 30 +271E WearCheck USA - 50 : TO10003188 r : 06196757	01 Madiso Recei Teste	ived : 31 d : 03	(0)100 100	Acid Number		MMAS BLUFF DALLAS, T>
Sample No. Lab Number Unique Number	<pre>viscosity @ 40°C viscosity @ 40°C v</pre>	01 Madiso Recei Teste Diagn	ived : 31 d : 03 nosed : 03	, NC 27513 May 2024 Jun 2024 - Doo	Acid Number	Γ ERA - MCCO	MMAS BLUFF DALLAS, T> US
Sample No. Lab Number Unique Number Test Package	<pre>viscosity @ 40°C viscosity @ 40°C v</pre>	01 Madiso Recei Teste Diagn ests: KF, K	ived : 31 d : 03 nosed : 03 V100, PrtCo	, NC 27513 May 2024 Jun 2024 - Doo unt, VI)	Acid Number	Γ ERA - MCCO	MMAS BLUFF DALLAS, T>
Sample No. Lab Number Unique Number	WearCheck USA - 5 TO10003188 r : 06196757 r : 11058880 e : IND 2 (Additional Tert, contact Customer Ser are outside of the ISO	01 Madiso Recei Teste Diagn ests: KF, K vice at 1-8 17025 sco	ived : 31 id : 03 iosed : 03 iV100, PrtCo i00-237-1369 ippe of accrea	, NC 27513 May 2024 Jun 2024 - Doi unt, VI) 2.	Acid Number	F ERA - MCCO Contact: Se	MMAS BLUFF DALLAS, T> US

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