

ISO



Area

Fwd Machinery Space

Machine Id
Generator - SKSG Turbocharger A - Intake Side (S/N Sample Tag CD-86201-S4)

Component

Turbine

Fluid

BP Enersyn TC-S 68 (1 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC	PC	PC
Sample Date	Client Info			04 Apr 2024	12 Feb 2023	26 Sep 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.03	NEG	NEG	NEG

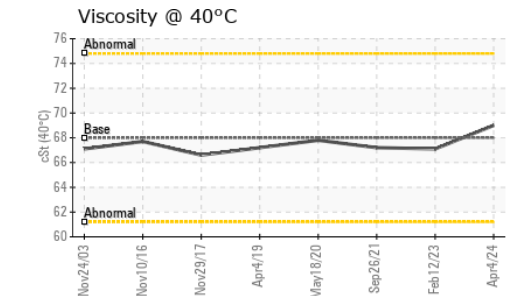
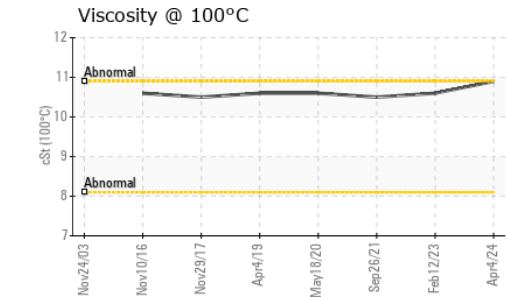
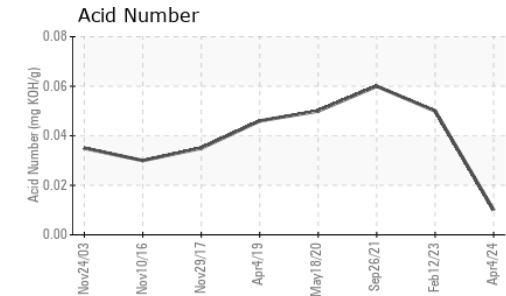
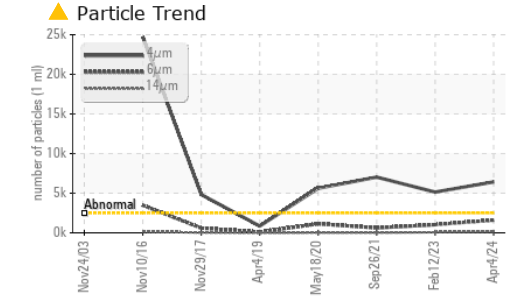
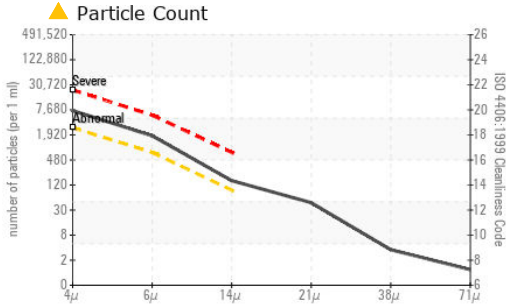
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>10	0	<1	<1
Chromium	ppm	ASTM D5185(m)	>3	0	0	0
Nickel	ppm	ASTM D5185(m)	>3	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>3	0	0	<1
Lead	ppm	ASTM D5185(m)	>3	0	<1	0
Copper	ppm	ASTM D5185(m)	>4	0	0	<1
Tin	ppm	ASTM D5185(m)	>3	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	0	0
Calcium	ppm	ASTM D5185(m)		<1	0	<1
Phosphorus	ppm	ASTM D5185(m)		779	857	808
Zinc	ppm	ASTM D5185(m)		1	1	1
Sulfur	ppm	ASTM D5185(m)		443	473	464
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>10	0	4	▲ 22
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 6426	▲ 5139	▲ 7028	
Particles >6µm	ASTM D7647	>640	▲ 1602	● 1027	627	
Particles >14µm	ASTM D7647	>80	● 135	72	19	
Particles >21µm	ASTM D7647	>20	● 40	18	3	
Particles >38µm	ASTM D7647	>4	3	1	0	
Particles >71µm	ASTM D7647	>3	1	0	0	
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/18/14	▲ 20/17/13	▲ 20/16/11	

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02631636
Unique Number : 5772789
Test Package : MAR 2 (Additional Tests: KV100, PrtCount, VI)
Received : 26 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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FLUID DEGRADATION						
	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.01	0.05	0.06	
VISUAL						
	method	limit/base	current	history1	history2	
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	NONE	VLITE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.03	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	

FLUID PROPERTIES						
	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	68	69.0	67.1	67.2
Visc @ 100°C	cSt	ASTM D7279(m)		10.9	10.6	10.5
Viscosity Index (VI)	Scale	ASTM D2270*		148	146	144

SAMPLE IMAGES						
	method	limit/base	current	history1	history2	
Color						
Bottom						

