

OIL ANALYSIS REPORT

SAB1 SAB1 G9

Thrust Bearing

ESSO TERESSO ISO 46 (4250 LTR)

Sample Rating Trend





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

Component wear rates appear to be normal (unconfirmed).

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		WC0565947	WC0565946	WC0565948
Sample Date		Client Info		25 May 2024	25 May 2024	25 May 2024
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				NORMAL	NORMAL	NORMAL
CONTAMINATION	d .	mothod	limit/bass	ourront	hiotonul	history
CONTAMINATION	V	method	limit/base	current	history1	history2

Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>85	<1	<1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>60	0	0	0
Copper	ppm	ASTM D5185(m)	>7	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>40	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	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	historv1	historv2

ADDITIVES		method				history2
Boron	ppm	ASTM D5185(m)	0	<1	<1	0
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	0	0
Calcium	ppm	ASTM D5185(m)	0	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	2.4	3	3	3
Zinc	ppm	ASTM D5185(m)	0	1	1	1
Sulfur	ppm	ASTM D5185(m)		637	632	636
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	3	method	limit/base	current	history1	history2

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<1	0	<1
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	840	898	923
Particles >6µm		ASTM D7647	>1300	86	119	109
Particles >14µm		ASTM D7647	>160	5	11	8
Particles >21µm		ASTM D7647	>40	2	3	3

0

0

17/14/10

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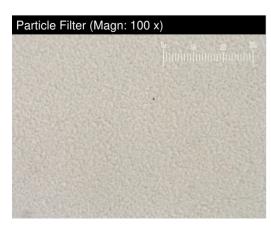
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ASTM D7647 >10

ISO 4406 (c) >20/17/14

ASTM D7647 >3



Report Id: ONTQUE [WCAMIS] 02645498 (Generated: 07/09/2024 16:57:16) Rev: 1

Particles >38um

Particles >71µm

Oil Cleanliness

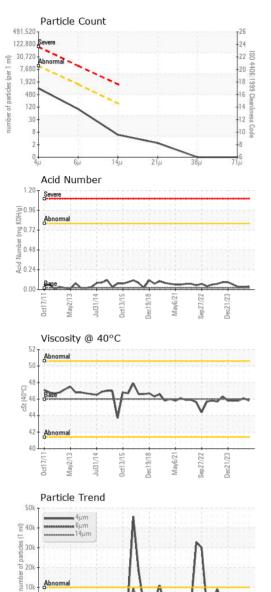
17/14/10 Submitted By: ?

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OIL ANALYSIS REPORT



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.04	0.03	0.03
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	150		1::-	O. I.K. O. D. t	Internation	la la la ma O
I LOID I NOI LINI	IES	method				history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.8	46.1	45.8
	cSt				•	· ·
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.8	46.1	45.8
Visc @ 40°C SAMPLE IMAGES	cSt	ASTM D7279(m)	46	45.8	46.1	45.8



CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Laboratory

Lab Number : 02645498 Unique Number : 5803037

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0565947 Received : 04 Jul 2024

Tested : 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Kevin Marson Test Package : IND 2 (Additional Tests: BottomAnalysis, FilterPatch, PrtFilter)

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.

Ontario Power Generation

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Submitted By: ?