

OIL ANALYSIS REPORT

Sample Rating Trend



		v2013 Apr20	15 Jul2016 Apr2018	Jul2019 Nov2020 Feb2022	Jun2023	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0890871	WC0801620	WC085810
Sample Date		Client Info		27 Mar 2024	07 Jan 2024	25 Oct 2023
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	ATTENTIO
CONTAMINATIO	NC	method	limit/base	current	history1	history
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>85	4	5	4
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>40	0	<1	0
Lead	ppm	ASTM D5185(m)	>60	0	<1	0
Copper	ppm	ASTM D5185(m)		د <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	history1	history2
Boron	ppm	ASTM D5185(m)	0	0	0	<1
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	0	0	<1
Phosphorus	ppm	ASTM D5185(m)	2.4	<1	<1	<1
Zinc	ppm	ASTM D5185(m)		1	<1	<1
Sulfur	ppm	ASTM D5185(m)		700	748	722
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185(m)	>20	0	0	0
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 20160	A 27677	14797
Particles >4μm Particles >6μm		ASTM D7647 ASTM D7647	>10000 >1300	▲ 20160 ● 1393	276771715	14797 923
Particles >6µm		ASTM D7647	>1300 >160	<mark> </mark> 1393	1715	923
Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647	>1300 >160	1393 31	171532	923 11
Particles >6µm Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647 ASTM D7647	>1300 >160 >40 >10	1393 31 9	1715 32 9	923 11 4
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>1300 >160 >40 >10	 1393 31 9 1 	 1715 32 9 2 	923 11 4 1

SAB2 G23 Component **Thrust Bearing** Fluid ESSO TERESSO ISO 46 (3182 LTR)

DIAGNOSIS

Area SAB2

Recommendation

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

Wear

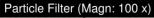
Component wear rates appear to be normal (unconfirmed).

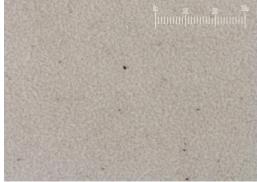
Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

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.





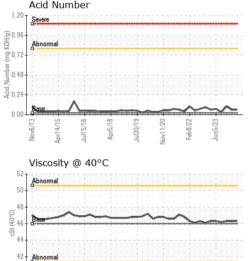
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Submitted By: ?



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Partic	e Count				т26
2,880 Severe					-24
0,720 Abnormal					-22 ISO 4406:1999 Cleanliness Code +18 Cleanliness Code +12 Cleanliness Code
7,680					20 8
1,920-		•			-18 1999
480 -	1.	1			-16 Cea
120-					-14 m
30- 8-			_		-12 %
2					10 6
0 _{4µ}	6µ 1	4μ 2	1μ 3	18µ	71µ
🔺 Partic	e Trend				
80k T		1110000	121700		
70k -	— 4μm 6μm	1	1		
70k -	4μm 6μm 14μm		1		
70k -	4μm 6μm 14μm		1		
70k -	4μm 6μm 14μm	m	L	1	
70k -	4μm 6μm 14μm	m	L	1-	~~
70k	\sim	m	L	1	\sim
70k	\sim	m	1	1	~
70k	\sim	Apr5/18	Nov11/20	Feb8/22	



nr5/18

Feb8/22

Jov11/20

40

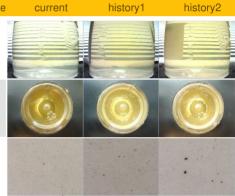
Nov6/13

nr14/15

FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.06	0.06	0.10
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	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	46.3	46.3	46.3
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color

Bottom



PrtFilter

