

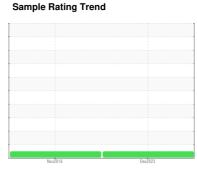
# **OIL ANALYSIS REPORT**

# (ZONE3) BRUCE A/1/34720 1-34720-P1-PM Up Brg

Component

**Upper Bearing** 

ESSO NUTO H ISO 46 (--- GAL)





### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. 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.

			Nov2016	Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0871692	WC22121565	
Sample Date		Client Info		04 Dec 2023	22 Nov 2016	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>10	0	<1	
Chromium	ppm	ASTM D5185(m)	>5	0	0	
Nickel	ppm	ASTM D5185(m)	>5	<1	0	
Titanium	ppm	ASTM D5185(m)	>5	0	0	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	
Lead	ppm	ASTM D5185(m)	>5	<1	<1	
Copper	ppm	ASTM D5185(m)	>5	<1	1	
Tin	ppm	ASTM D5185(m)	>5	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	0	
Barium	ppm	ASTM D5185(m)	0	<1	<1	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	5	0	0	
Calcium	ppm	ASTM D5185(m)	50	53	43	
Phosphorus	ppm	ASTM D5185(m)	330	344	337	
Zinc	ppm	ASTM D5185(m)	410	449	452	
Sulfur	ppm	ASTM D5185(m)	2700	4966	2655	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>5	<1	<1	
Sodium	ppm	ASTM D5185(m)		<1	3	
Potassium	ppm	ASTM D5185(m)	>20	0	0	
Water	%	ASTM D6304*	>0.005	0.003	0.002	
ppm Water	ppm	ASTM D6304*	>50	37	22.5	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	798	7033	
Particles >6µm		ASTM D7647	>1300	151	1145	
Particles >14μm		ASTM D7647	>320	9	57	
Particles >21µm		ASTM D7647	>80	4	9	
Particles >38μm		ASTM D7647	>20	0	0	
Particles >71μm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/15	17/14/10	20/17/13	



## **OIL ANALYSIS REPORT**

