

OIL ANALYSIS REPORT

RIG 816 R816-MP-02

Component Gearbox

NOT GIVEN (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The AN level is acceptable for this fluid.

			Nov2023	Nov2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012971	KL0013155	
Sample Date		Client Info		05 Nov 2023	01 Nov 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	256	23	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		3	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	36	20	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	2	
Barium	ppm	ASTM D5185m		30	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		2	0	
Magnesium	ppm	ASTM D5185m		8	0	
Calcium	ppm	ASTM D5185m		61	17	
Phosphorus	ppm	ASTM D5185m		151	127	
Zinc	ppm	ASTM D5185m		61	40	
Sulfur	ppm	ASTM D5185m		6986	6784	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<u>46</u>	9	
Sodium	ppm	ASTM D5185m		83	12	
Potassium	ppm	ASTM D5185m	>20	6	0	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u>^</u> 268480	△ 55659	
Particles >6µm		ASTM D7647	>5000	<u> </u>	△ 5550	
Particles >14μm		ASTM D7647	>640	<u> </u>	104	
Particles >21µm		ASTM D7647	>160	<u> </u>	18	
Particles >38µm		ASTM D7647	>40	1	0	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 25/25/21	<u>△</u> 23/20/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

mg KOH/g ASTM D8045

Acid Number (AN)

0.34



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: KL0012971 +05999028

Received : 06 Nov 2023 Diagnosed : 07 Nov 2023 : 10727388 Diagnostician : Doug Bogart

Test Package : MOB 2 (Additional Tests: PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)