

OIL ANALYSIS REPORT

[GH-9162A] 170831 DB

Unknown Component

{not provided} (--- GAL)

Sample Rating Trend **NORMAL**

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please provide more complete information on your next sample.

Wear

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.

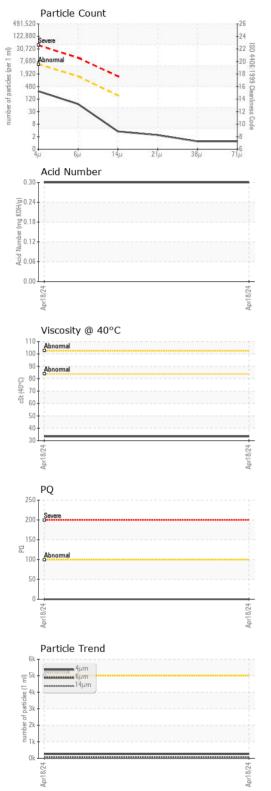
Fluid Condition

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.

			,	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP		
Sample Date		Client Info		18 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)		6		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		0		
Lead	ppm	ASTM D5185(m)		<1		
Copper	ppm	ASTM D5185(m)		7		
Tin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		6		
Calcium	ppm	ASTM D5185(m)		42		
Phosphorus	ppm	ASTM D5185(m)		221		
Zinc	ppm	ASTM D5185(m)		249		
Sulfur	ppm	ASTM D5185(m)		2559		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<1		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		



OIL ANALYSIS REPORT



Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>160	253 61 3		
Particles >14μm Particles >21μm Particles >38μm	ASTM D7647 ASTM D7647	>160	-		
Particles >21μm Particles >38μm	ASTM D7647		2		
Particles >38µm		40	3		
<u> </u>		>40	2		
Particles >71um	ASTM D7647	>10	1		
· artiolog / / priii	ASTM D7647	>3	1		
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/13/9		
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*		0.30		
VISUAL	method	limit/base	current	history1	history2
White Metal scalar	Visual*	NONE	NONE		
Yellow Metal scalar	Visual*	NONE	NONE		
Precipitate scalar	Visual*	NONE	NONE		
Silt scalar	Visual*	NONE	NONE		
Debris scalar	Visual*	NONE	NONE		
Sand/Dirt scalar	Visual*	NONE	NONE		
Appearance scalar	Visual*	NORML	NORML		
Odor scalar	Visual*	NORML	NORML		
Emulsified Water scalar	Visual*		NEG		
Free Water scalar	Visual*		NEG		
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D7279(m)		33.4		
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image





Laboratory Sample No.

Unique Number : 5763326

: PP Lab Number : 02630194

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.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 19 Apr 2024

Received **Tested** Diagnosed

: 23 Apr 2024 : 23 Apr 2024 - Kevin Marson Test Package : IND 2 (Additional Tests: PQ, PRTCOUNT)

SUITE 1000,, 100 NEW GOWER STREET ST.JOHNS, NL CA A1C 6K3 Contact: Sam Nash

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Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Sam Nash - HIBSTJ