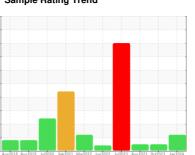


OIL ANALYSIS REPORT

mple Beting Trend



ISO

KDE 30 (S/N 1736-725) Component

Gearbox

MOBIL SHC CIBUS 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

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.

				_
8 Aug2019				

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0677995	WC0677992	WC0847582
Sample Date		Client Info		23 Jan 2024	17 Oct 2023	19 Aug 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	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	12	12	11
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m	>200	32	23	19
Tin	ppm	ASTM D5185m	>25	3	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		5	0	3
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		2	0	4
Phosphorus	ppm	ASTM D5185m		473	466	497
Zinc	ppm	ASTM D5185m		27	10	9
Sulfur	ppm	ASTM D5185m		537	593	709
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	nnm		>50	2	2	2
Sodium	ppm	ASTM D5185m	>50	0	<1	0
Potassium	ppm	ASTM D5185m	>20	1	1	<1
FLUID CLEANLIN		method	limit/base	current	history1	history2
	ILOO					
Particles >4µm		ASTM D7647	>20000	<u>115660</u>		
Particles >6μm		ASTM D7647	>5000	▲ 17955		
Particles >14µm		ASTM D7647	>640	59		
Particles >21µm		ASTM D7647	>160	11		
Particles >38µm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/21/13		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

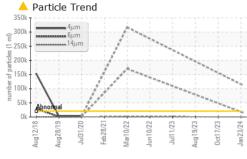
Acid Number (AN)

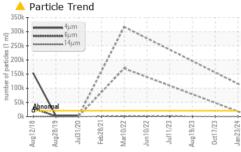
mg KOH/g ASTM D8045

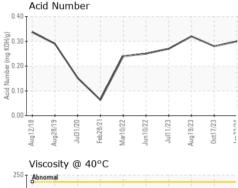
0.32

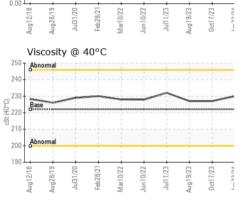


OIL ANALYSIS REPORT

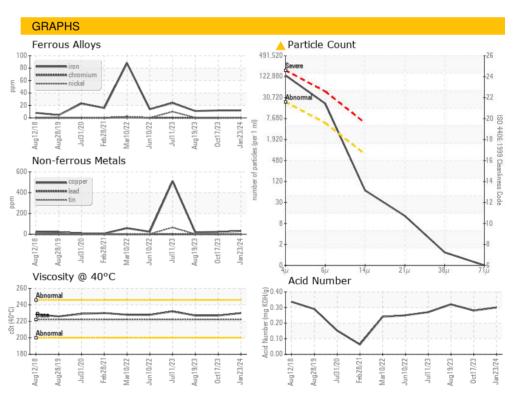








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	222	230	227	227
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					0.	







Laboratory

Sample No. Lab Number : 06098384

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0677995

Bottom

Received : 23 Feb 2024 **Tested** Diagnosed

: 26 Feb 2024 : 26 Feb 2024 - Wes Davis

PO BOX 725 TUTTLE, OK US 73089

Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Report Id: BRATUTOK [WUSCAR] 06098384 (Generated: 02/26/2024 08:41:48) Rev: 1

Unique Number : 10896614 Test Package: IND 2 (Additional Tests: PrtCount)

Contact: SCOTTY SCOTT sscott@braums.com; maintenance of fice@braums.com

BRAUM'S ICE CREAM PLANT

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) T: (405)381-4427 F: (405)381-2051

Contact/Location: SCOTTY SCOTT - BRATUTOK