

OIL ANALYSIS REPORT

Area TM 11 Machine Id TM 11 WET BROKE AGT REDUCER Gearbox

Recommendation

Resample at the next service interval to monitor.

Wear

Fluid

All component wear rates are normal.

GEAR OIL ISO 220 (--- GAL)

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0037900	RP0038093	RP0034372
Sample Date		Client Info		15 Jul 2024	29 Jan 2024	08 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				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		16	17	13
Iron	ppm	ASTM D5185m	>200	63	64	50
Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	<1
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m		0	<1	<1
Vanadium	ppm	ASTM D5185m	20	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ρριιι		11 1. 0	-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	9	31	32
Barium	ppm	ASTM D5185m	15	0	0	19
Molybdenum	ppm	ASTM D5185m	15	0	1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	50	1	1	0
Calcium	ppm	ASTM D5185m	50	16	25	21
Phosphorus	ppm	ASTM D5185m	350	386	396	473
Zinc	ppm	ASTM D5185m	100	34	67	88
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	3	6
Sodium	ppm	ASTM D5185m		1	0	1
Potassium	ppm	ASTM D5185m	>20	0	3	0
Water	%	ASTM D6304	>0.2	0.026	0.013	0.019
ppm Water	ppm	ASTM D6304	>2000	263	139	192.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	6512	18287	61726
Particles >6µm		ASTM D7647	>5000	1246	1434	5731
Particles >14µm		ASTM D7647	>640	62	28	132
Particles >21µm		ASTM D7647	>160	13	5	22
Particles >38µm		ASTM D7647	>40	2	1	0
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/17/13	21/18/12	▲ 23/20/14
FLUID DEGRADATION method limit/base current history1 history2						
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.95	1.79	1.50

Contact/Location: LARRY WEAVER - KIMMOBTM11



1200

1000

800 Water (ppm)

600

400

2000

250

20

150

50

100

0

25

240

23

0°0€) 520

210

20 Al

190

200

150

50

2 100

PQ 25

Apr8/1

Viscosity @ 40°C

an31/15

106/1

Î 80 icles (60 40 Ab

2 10

OIL ANALYSIS REPORT

*Visual

*Visual

*Visual

*Visual

*Visual

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*Visual

*Visual

ASTM D445

NONE

NONE

NONE

NONE

NONE

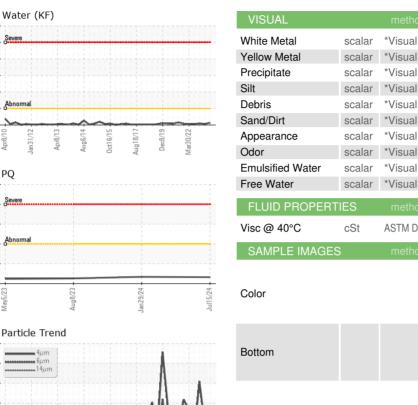
NONE

NORML

NORML

>0.2

220



80

60

H 40

20

20

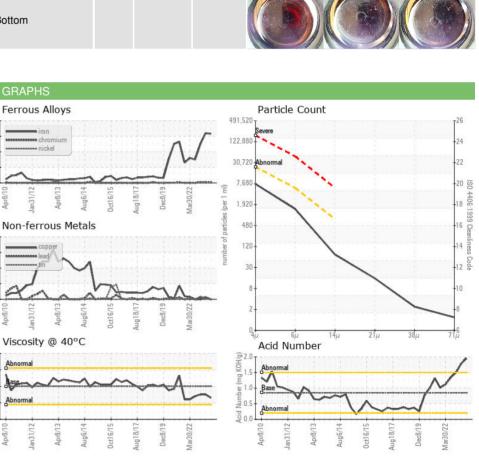
260

240

180

cSt 200

-C1051





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Kimberly-Clark - Mobile - TM 11 Sample No. : RP0037900 Received : 16 Jul 2024 200 BAYBRIDGE RD Lab Number Tested : 17 Jul 2024 MOBILE, AL : 06237790 : 18 Jul 2024 - Don Baldridge Unique Number : 11126624 Diagnosed US 36610 Test Package : IND 2 (Additional Tests: PQ, PrtCount) Contact: LARRY WEAVER Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Larry.D.Weaver@kcc.com * - 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) F: (251)452-6335

Report Id: KIMMOBTM11 [WUSCAR] 06237790 (Generated: 07/18/2024 17:47:32) Rev: 1

Contact/Location: LARRY WEAVER - KIMMOBTM11

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

210

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

210

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

206

T: