

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

TM 5 Component Gearbox

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Area

Fluid

All component wear rates are normal.

GEAR OIL ISO 220 (--- GAL)

Contamination

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

Fluid Condition

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

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0030497	RP0038115	RP0023600
Sample Date		Client Info		25 Jun 2024	29 Jan 2024	24 May 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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	15	21
Iron	ppm	ASTM D5185m	>200	40	108	48
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	1
Lead	ppm	ASTM D5185m	>100	0	1	6
Copper	ppm	ASTM D5185m	>200	8	36	1 87
Tin	ppm	ASTM D5185m	>25	0	1	1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	19	25	31
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	50	<1	0	0
Calcium	ppm	ASTM D5185m	50	2	0	<1
Phosphorus	ppm	ASTM D5185m	350	466	381	463
Zinc	ppm	ASTM D5185m	100	69	197	245
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5	10	10
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m		2	2	<1
Water	%	ASTM D6304	>0.2	0.016	0.019	0.118
ppm Water	ppm	ASTM D6304	>2000	167	195	1180
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	17055	7334	
Particles >6µm		ASTM D7647	>5000	1314	839	
Particles >14µm		ASTM D7647	>640	35	50	
Particles >21µm		ASTM D7647	>160	5	13	
Particles >38µm		ASTM D7647	>40	0	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/18/12	20/17/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	1.42		1.30

Report Id: KIMMOBTM5 [WUSCAR] 06221170 (Generated: 06/30/2024 17:49:00) Rev: 1

Contact/Location: WAYNE PERRY - KIMMOBTM5



12000

10000

800 Water (ppm)

6000

4000

2000

250

200

25

Ê 20

) particles (5 10

0

350

25

150

100

50

250

200

150

50

0

0ct18/1

PQ

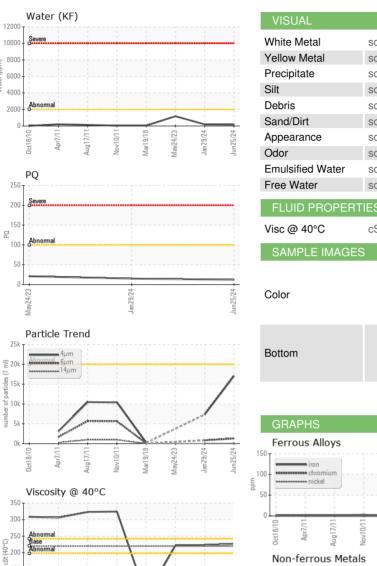
Abr 100

(140/mell)

ua17/1

2 100 50

OIL ANALYSIS REPORT



VISUAL		methoa	limit/base	current	nistory i	riistory2
hite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ecipitate	scalar	*Visual	NONE	NONE	NONE	NONE
lt	scalar	*Visual	NONE	NONE	NONE	MODER
ebris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
pearance	scalar	*Visual	NORML	NORML	NORML	- HAZY
dor	scalar	*Visual	NORML	NORML	NORML	NORML
nulsified Water	scalar	*Visual	>0.2	NEG	NEG	0.2%
ee Water	scalar	*Visual		NEG	NEG	▲ 1.0
FLUID PROPERTIES		method	limit/base	current	history1	history2
sc @ 40°C	cSt	ASTM D445	220	227	223	222
SAMPLE IMAGES		method	limit/base	current	history1	history2
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* - 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)

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