

OIL ANALYSIS REPORT

CMPL TENSION UNIT (S/N 16-5300-0245) Component Gearbox

GEAR OIL ISO 220 (--- QTS)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

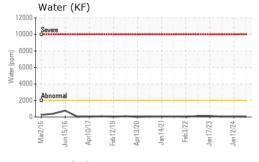
Fluid Condition

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

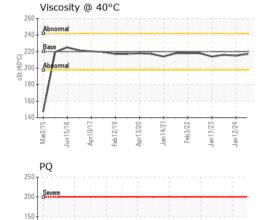
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0044223	RP0039155	RP0034972
Sample Date		Client Info		17 Jun 2024	12 Jan 2024	07 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		48	52	54
Iron	ppm	ASTM D5185m	>200	58	56	56
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	3
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0	1	0
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	50	0	0	0
Calcium	ppm	ASTM D5185m	50	30	33	30
Phosphorus	ppm	ASTM D5185m	350	120	124	127
Zinc	ppm	ASTM D5185m	100	12	0	7
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7	7	7
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.2	0.002	0.004	0.003
ppm Water	ppm	ASTM D6304	>2000	21	42	39.0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.25	0.25	0.23



OIL ANALYSIS REPORT



12000 т	Water	(KF)						
10000-	Severe							
€ 8000								
6000 -								
[≥] 4000-								
2000-	Abnormal							
01	Mar2/15 Jun15/16	Apr10/17	Feb12/19	Apr13/20	Jan14/21-	Feb3/22	Jan17/23 -	Jan12/24 -



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 scala		*Visual	NORML	NORML	NORML	NORML	
Emulsified Water scalar		*Visual	>0.2	NEG	NEG	NEG	
Free Water	Free Water scalar		NEG		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	220	217	215	216	
SAMPLE IMAGES	method				history2		
						(Description	

	GR	APH	S																	
Ferrous Alloys									_	PQ										
40- Ed. 20-		ir	on hromiur ickel		_		$\hat{}$			1	80 - Sev	ere	-							
0	Mar2/15	Jun15/16	Apr10/17	Feb12/19	Apr13/20	Jan14/21	Feb3/22	Jan17/23	Jan12/24	. 1	40 -	normal								
10 · 8 · 6 · 6 · 4 · 4 · 2 ·		-ferr	opper i	Meta	s						80 60 40	~	_	\			<u>\</u>			
0	Mar2/15	Jun15/16	Apr10/17	Feb12/19	Apr13/20	Jan14/21	Feb3/22	Jan17/23	Jan 12/24		Apr10/17	Feb12/19	0000	7)C11dW	Jan14/21	Feb3/22		Jan17/23	Jan12/24	+
250		osity	@ 4	10°C						(F)	Ac	id Nun	nber							
(40°C) 2000 2000 2000 2000 2000 2000 2000 20	Base Abyro	-								Acid Number (mg KOH/g)	50 - Abi									
100	Mar2/15	Jun15/16 +	Apr10/17	Feb12/19	Apr13/20	Jan14/21	Feb3/22	Jan17/23	Jan12/24	- Acid N	Mar2/15	ormal 91/51unc	Apr10/17	Feb12/19	Apr13/20	Jan14/21	Feb3/22 -	Jan17/23 +	Jan12/24	=



100



Certificate 12367

Laboratory Sample No.

Jan 12/24

: RP0044223 Lab Number : 06213573 Unique Number : 11086437

Color

Bottom

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 18 Jun 2024 : 20 Jun 2024 : 20 Jun 2024 - Don Baldridge Diagnosed

Test Package : IND 2 (Additional Tests: PQ)

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.

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

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