WEAR CONTAMINATION **FLUID CONDITION**

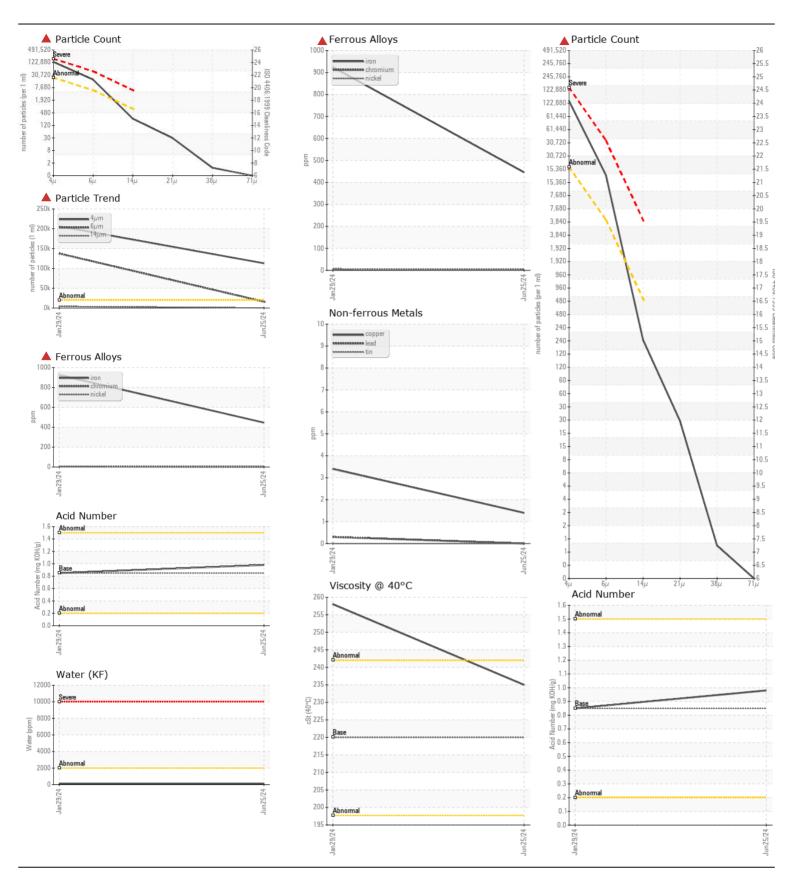
SEVERE SEVERE NORMAL

TM 5

TM 5 CAL LEAD IN ROLL

Gearbox

Sample Number Client Info RP0038087 RP0038083	Sample Date Client Info Q5 Jun 2024 29 Jan 2026	
Machine Age hrs Client Info 0 0	an early resample to monitor this condition. Machine Age hrs Client Info 0 0 0 0 0 0 0 0 0	
Collaboration Collaboratio	Oil Age hrs Client Info O O O O	
Filter Age	Filter Age hrs Client Info N/A	
Coll Changed Client Info N/A	Oil Changed Cilient Info RIVA N/A N/A N/A N/A N/A N/A N/A SEVERE SEVERE SEVERE SEVERE	
Filter Changed Sample Status SEVERE SEV	Filter Changed Sample Status	
NEAR PO	PQ	
PC	PQ	
Iron	Iron	
Iron	Iron	
Nickel ppm ASTM D5185m 515 c1 c1 c2 c3 c3 c4 c4 c4 c4 c4 c4	Nickel ppm ASTM D5185m >15 <1 4	
Titanium ppm ASTM D5185m 0	Titanium ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 <1 2 Lead ppm ASTM D5185m >20 1 3 Tin ppm ASTM D5185m >20 1 3 Tin ppm ASTM D5185m >20 0 0 Vanadium ppm Vanadium ppm ASTM D5185m Vanadium ppm V	
Silver ppm ASTM D5185m 0 0 0	Silver ppm ASTM D5185m 0 0 0 0	
Aluminum ppm ASTM D5188m >25 <1 2	Aluminum ppm ASTM D5185m >25 <1 2 Lead ppm ASTM D5185m >100 0 <1 Copper ppm ASTM D5185m >200 1 3 Tin ppm ASTM D5185m >25 0 0 Vanadium ppm ASTM D5185m >0 <1 White Metal scalar "Visual NONE NONE NONE NONE NONE NONE NONE NON	
Lead ppm ASTM D5185m >100 0 1 3	Lead ppm ASTM D5185m >100 0 <1 Copper ppm ASTM D5185m >200 1 3 Tin ppm ASTM D5185m >25 0 0 Vanadium ppm ASTM D5185m >25 0 0 Vanadium ppm ASTM D5185m NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	
Copper ppm ASTM D5185m 250 0 0 0 1 3 1 1 1 1 1 1 1 1	Copper Tin ppm ASTM D5185m >200 1 3 Tin ppm ASTM D5185m >25 0 0 Vanadium ppm ASTM D5185m >20 2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE Potassium ppm ASTM D5185m >50 6 6 Potassium ppm ASTM D6304 >0.2 2 2 Water % ASTM D6304 >0.2 0.013 0.013 ppm Water ppm ASTM D7647 >20000 ▲ 112837 ▲ 20624 Particles >4µm ASTM D7647 >5000 ▲ 16041 ▲ 13760 Particles >21µm ASTM D7647 >640 218 ▲ 4047 Particles >38µm ASTM D7647 >40 1 7	
Time	Tin ppm ASTM D5185m >25 0 0 0 Vanadium ppm ASTM D5185m 0 <1 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	
Vanadium ppm ASTM D5185m NONE NON	Vanadium ppm ASTM D5185m 0 <1 White Metal Yellow Metal scalar *Visual NONE NONE NONE Vellow Metal Yellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NO	
White Metal Scalar Visual NONE NO	White Metal Scalar *Visual NONE	
Yellow Metal Scalar Visual NONE N	Yellow Metal scalar *Visual NONE NONE NONE CONTAMINATION Silicon ppm ASTM D5185m >50 6 6 Potassium ppm ASTM D6304 >0.2 2 2 Water % ASTM D6304 >0.02 0.013 0.013 ppm Water ppm ASTM D6304 >2000 135 137 Particles >4μm ASTM D7647 >20000 ▲ 112837 ▲ 20624 Particles >6μm ASTM D7647 >5000 ▲ 16041 ▲ 13760 Particles >14μm ASTM D7647 >640 218 ▲ 4047 Particles >21μm ASTM D7647 >40 1 7	
Silicon ppm ASTM D5185m >50 6 6	Silicon ppm ASTM D5185m >50 6 6 Potassium ppm ASTM D5185m >20 2 2 Water % ASTM D6304 >0.2 0.013 0.013 ppm Water ppm ASTM D6304 >2000 135 137 Particles >4μm ASTM D7647 >20000 112837 ≥0624 Particles >14μm ASTM D7647 >5000 ASTM D7647 >640 218 4047 Particles >21μm ASTM D7647 >160 26 ASTM D7647 >40 1 7 Particles >38μm ASTM D7647 >40 1 7 Particles >4μm ASTM D7647 >40 1 7 Partic	
Potassium ppm ASTM D6304 >0.2 2 2 2	Potassium ppm ASTM D5185m >20 2 0.013 0.013 0.013 ppm Water ppm Water ppm ASTM D6304 >0.2 0.013 0.01	
Potassium ppm ASTM D6304 >0.2 2 2 2	Potassium ppm ASTM D5185m >20 2 0.013 0.013 0.013 ppm Water ppm Water ppm ASTM D6304 >0.2 0.013 0.01	
Particles > 4µm	ppm Water ppm ASTM D6304 > 2000 135 137 Particles > 4μm ASTM D7647 > 2000 Δ 112837 Δ 20624 Particles > 6μm ASTM D7647 > 5000 Δ 16041 Δ 13760 Particles > 14μm ASTM D7647 > 640 218 Δ 4047 Particles > 21μm ASTM D7647 > 160 26 Δ 350 Particles > 38μm ASTM D7647 > 40 1 7	
Particles >4µm	Particles >4μm	
Particles >6μm ASTM D7647 >5000 ▲ 16041 ▲ 137603	Particles >6μm ASTM D7647 >5000 ▲ 16041 ▲ 13760 Particles >14μm ASTM D7647 >640 218 ▲ 4047 Particles >21μm ASTM D7647 >160 26 ▲ 350 Particles >38μm ASTM D7647 >40 1 7	
Particles >14μm ASTM D7647 >640 218 4047	Particles >14μm ASTM D7647 >640 218 ▲ 4047 Particles >21μm ASTM D7647 >160 26 ▲ 350 Particles >38μm ASTM D7647 >40 1 7	2
Particles >21 µm	Particles >21μm ASTM D7647 >160 26 ▲ 350 Particles >38μm ASTM D7647 >40 1 7	3
Particles > 38µm ASTM D7647 > 40 1 7 Particles > 71µm ASTM D7647 > 10 0 1 Particles > 71µm ASTM D7647 > 10 0 1 Particles > 71µm ASTM D7647 > 10 0 1 Particles > 71µm ASTM D7647 > 10 0 1 Particles > 71µm ASTM D7647 > 10 0 1 Particles > 71µm ASTM D5185m 50 1 2 Phosphorus ppm ASTM D5185m 50 412 271 Phosphorus ppm ASTM D5185m 50 1 7 Phosphorus ppm ASTM D5185m 50 412 271 Phosphorus ppm ASTM D5185m 50 0 11 7 Phosphorus ppm ASTM D5185m 50 0 11 7 Phosphorus ppm ASTM D5185m 50 0 50 50 50 50 Phosphorus ppm ASTM D5185m 50 0 50 50 50 Phosphorus ppm ASTM D5185m 50 0 50 50 50 Phosphorus ppm ASTM D5185m 50 0 50 Phosphorus ppm ASTM D5185m 50 0 50 50 Phosphorus ppm ASTM D5185m 50 0 50 Phosphorus ppm ASTM D5185m 50 0 50	Particles >38μm ASTM D7647 >40 1 7	
Particles >71 μm ASTM D7647 >10 0 1	·	
Oil Cleanliness ISO 4406 (c) 521/19/16 ▲ 24/21/15 ▲ 25/24/19	Particles >71μm ASTM D7647 >10 0 1	
Silt Scalar *Visual NONE NONE NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORM		
Debris Scalar Visual NONE NONE LIGHT	` '	
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML		
Appearance scalar *Visual NORML NORML NORML NORML NORML NORML Scalar *Visual NORML N		
Odor Scalar *Visual NORML NO		
Emulsified Water scalar *Visual >0.2 NEG NEG	**	
Sodium ppm ASTM D5185m Sodium Sodium Ppm ASTM D5185m Sodium Sodium Ppm ASTM D5185m Sodium Sod		L
Boron ppm ASTM D5185m 50 14 8	Emulsified Water scalar *Visual >0.2 NEG NEG	
Barium ppm ASTM D5185m 15 0 0 0 0 0 0 0 0 0		
Mollybdenum ppm ASTM D5185m 15 0 <1 Manganese ppm ASTM D5185m 50 1 0 Magnesium ppm ASTM D5185m 50 1 2 Calcium ppm ASTM D5185m 50 <1 6 Phosphorus ppm ASTM D5185m 50 <1 6 Phosphorus ppm ASTM D5185m 350 412 271 Zinc ppm ASTM D5185m 100 11 7 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.98 0.85	The AN level is acceptable for this fluid	
Manganese ppm ASTM D5185m 6 10 Magnesium ppm ASTM D5185m 50 1 2 Calcium ppm ASTM D5185m 50 <1 6 Phosphorus ppm ASTM D5185m 50 <1 6 Zinc ppm ASTM D5185m 350 412 271 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.98 0.85	Danum ppm Asimbsiosii 15	
Magnesium ppm ASTM D5185m 50 1 2 Calcium ppm ASTM D5185m 50 <1 6 Phosphorus ppm ASTM D5185m 350 412 271 Zinc ppm ASTM D5185m 100 11 7 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.98 0.85	,	
Calcium ppm ASTM D5185m 50 <1 6 Phosphorus ppm ASTM D5185m 350 412 271 Zinc ppm ASTM D5185m 100 11 7 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.98 0.85		
Phosphorus ppm ASTM D5185m 350 412 271 Zinc ppm ASTM D5185m 100 11 7 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.98 0.85		
Zinc ppm ASTM D5185m 100 11 7 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.98 0.85		
Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.98 0.85		





Laboratory Sample No. Lab Number Unique Number: 11099372

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0038087 : 06221175

Received **Tested** Diagnosed

: 27 Jun 2024 : 27 Jun 2024 - Don Baldridge

: 26 Jun 2024

Test Package: IND 2 (Additional Tests: PQ, PrtCount) Certificate L2367 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)

Kimberly-Clark - Mobile - TM 5

200 BAYBRIDGE RD MOBILE, AL US 36610

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F: (251)452-6335 Contact/Location: WAYNE PERRY - KIMMOBTM5