

[74852 LAKE CONWAY] **TAKEUCHI TB225 122600181**

Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

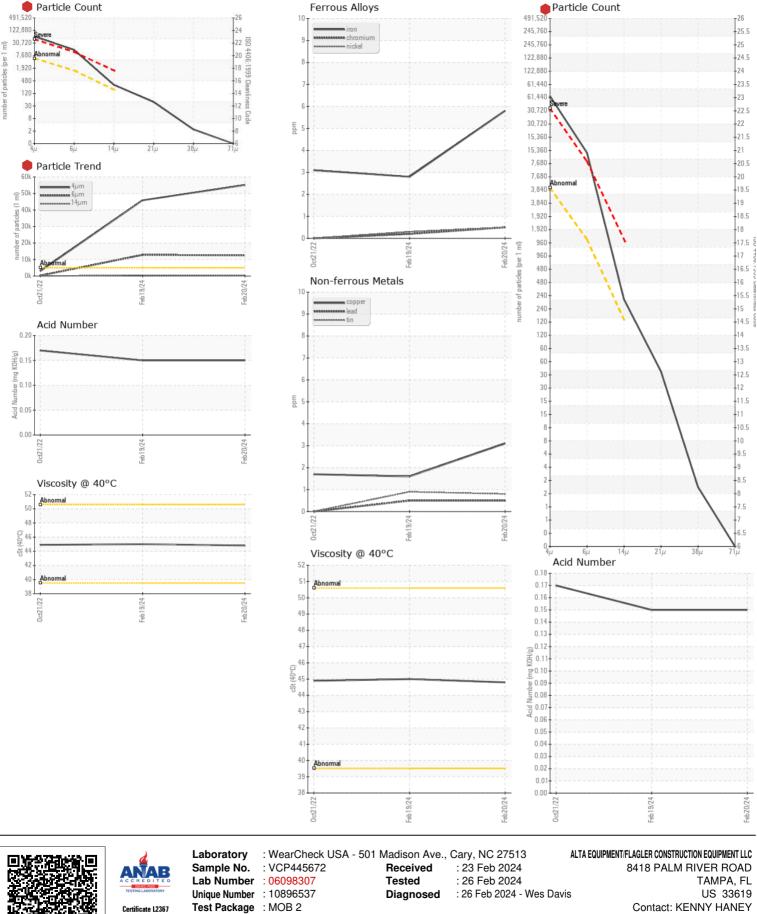
CONTAMINATION

There is a high 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.

Test UOM Method LimitAn Current History1 History2 Sample Date Client Info 20 Fe3220 19 Feb2024 10 Cr2922430 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info Not Changed Not Changed Not Changed Not Changed Filter Changed Client Info Not Changed Changed Not Changed Not Changed Sample Status Severee Severee Not Changed Not Changed Not Changed Chromium pm ASTM D5185m<>20 6 3 3 Chromium pm ASTM D5185m<>10 <1 1 0 Nickel ppm ASTM D5185m<>10 <1 <1 0 Qanadium ppm ASTM D5185m<>10 <1 <1 0 Vanadium ppm ASTM D5185m<>20 <1 <1 0							
Sample Number Client Info VCP445672 VCP445676 VCP385485 Sample Date Client Info 20 Feb 2024 19 Feb 2024 21 Oct 2022 Machine Age hrs Client Info 00 0 0 Oil Age hrs Client Info 0 0 0 0 Filter Changed Client Info Changed Not Changed Not Changed Not Changed Not Changed Filter Changed Client Info Changed SEVERE SEVERE NoRMAL Iron ppm ASTM D5185m >10 <1 <1 0 Nickel ppm ASTM D5185m >10 <1 <1 0 Aluminum ppm ASTM D5185m >10 <1 <1 0 Vanadium ppm ASTM D5185m >10 <1 <1 0 Vanadium ppm ASTM D5185m >10 <1 <1 0 Vanadium ppm ASTM D5185m >20 <1	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 20 Feb 2024 19 Feb 2024 21 Oct 2022 Machine Age hrs Client Info 0 0 0 0 Oil Age hrs Client Info 0 0 0 0 0 Oil Changed Client Info Not Changed Changed Not Changed	Sample Number		Client Info		VCP445672		VCP385485
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Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Silver ppm ASTM D5185m <1	Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Aluminum ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m		<1		0
Lead ppm ASTM D5185m >10 <1	Silver	ppm	ASTM D5185m		<1	<1	÷
Copper ppm ASTM D5185m >75 3 2 2 Tin ppm ASTM D5185m <1 <1 0 0 Wanadium ppm ASTM D5185m <1 0 0 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m<>20 4 2 1 0 Water WC Method >0.1 NEG NEG NEG Particles >4µm ASTM D7647 >5000 • 55129 • 45865 2935 Particles >14µm ASTM D7647 >100 2 1 0 0 Particles >4µm ASTM D7647 >10 2 1 0 0 Particles >38µm ASTM D7647 >10 2 1 0 0 Debris scalar *Visual	Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Tin ppm ASTM D5185m >10 <1		ppm		>10	<1		÷
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Silicon ppm ASTM D5185m >20 4 2 1 Potassium ppm ASTM D5185m >20 <1 <1 0 Water WC Method >0.1 NEG NEG NEG Particles >4µm ASTM D7647 >5000 • 55129 • 45865 2935 Particles >6µm ASTM D7647 >1300 • 12528 • 12799 240 Particles >14µm ASTM D7647 >100 • 445 12 Particles >14µm ASTM D7647 >40 41 • 588 2 Particles >38µm ASTM D7647 >10 2 1 0 0 Particles >71µm ASTM D7647 >30 0 0 0 0 0 Oli Cleanliness ISO 4406 (c) :91/17/14 • 23/21/16 19/15/11 Sila Scalar *Visual NONE NONE NONE Debris scalar *Visual NORL NORE NORE NORL NORE		scalar	*Visual		-		NONE
Potassium ppm ASTM D5185m >20 <1	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 <1	Silioon			. 20	Λ	0	4
Water WC Method >0.1 NEG NEG NEG Particles >4µm ASTM D7647 >5000 • 55129 • 45865 2935 Particles >6µm ASTM D7647 >1300 • 12528 • 12799 240 Particles >14µm ASTM D7647 >160 ▲ 271 ▲ 445 12 Particles >21µm ASTM D7647 >10 2 1 0 Particles >38µm ASTM D7647 >10 2 1 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 • 23/21/15 • 23/21/16 19/15/11 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Cdor scalar *Visual 0.1 NEG NEG NEG				-	-		
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Emulsified Water scalar *Visual >0.1 NEG NEG NEG Sodium ppm ASTM D5185m 0 0 0 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 5 <1 Molybdenum ppm ASTM D5185m <1 <1 0 Manganese ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m <1 <1 <1 <1 Phosphorus ppm ASTM D5185m <1 <1 <1 <1 Phosphorus ppm ASTM D5185m <1 <13 1 <1 Phosphorus ppm ASTM D5185m <365 216 279 Zinc ppm ASTM D5185m <57 28 50 <1 Sulfur ppm ASTM D5185m <684 350 519 Acid Number (AN) m				-	-	-	
Sodium ppm ASTM D5185m 0 0 0 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 5 <1 Molybdenum ppm ASTM D5185m 5 <1 Manganese ppm ASTM D5185m <1 <1 0 Magnesium ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m <1 <1 0 <1 0 Calcium ppm ASTM D5185m <1 1.3 1 Phosphorus ppm ASTM D5185m <1 1.3 1 Phosphorus ppm ASTM D5185m 365 2.16 2.79 Zinc ppm ASTM D5185m 57 2.8 50 Sulfur ppm ASTM D5185m 684 350 519 Acid Number (AN) mg KOHg ASTM D8045 0.15 0.15 0				-			
Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 5 <1 Molybdenum ppm ASTM D5185m 5 <1 Manganese ppm ASTM D5185m <1 <1 0 Magnesium ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m <1 <1 <1 <1 Calcium ppm ASTM D5185m <1 13 1 Phosphorus ppm ASTM D5185m 365 216 279 Zinc ppm ASTM D5185m 57 28 50 Sulfur ppm ASTM D5185m 684 350 519 Acid Number (AN) mg KOHg ASTM D8045 0.15 0.15 0.17							
Barium ppm ASTM D5185m 5 <1	Sodium	ppm	ASTM D5185m		0	0	0
Molybdenum ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		5	5	<1
Magnesium ppm ASTM D5185m 0 <1	Molybdenum	ppm	ASTM D5185m		<1	<1	0
Calcium ppm ASTM D5185m <1	•	ppm	ASTM D5185m			<1	
Phosphorus ppm ASTM D5185m 365 216 279 Zinc ppm ASTM D5185m 57 28 50 Sulfur ppm ASTM D5185m 684 350 519 Acid Number (AN) mg KOH/g ASTM D8045 0.15 0.15 0.17	Magnesium	ppm	ASTM D5185m				
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Sulfur ppm ASTM D5185m 684 350 519 Acid Number (AN) mg KOH/g ASTM D8045 0.15 0.15 0.17		ppm	ASTM D5185m				279
Acid Number (AN) mg KOH/g ASTM D8045 0.15 0.17	-						
		ppm	ASTM D5185m				519
Visc @ 40°C cSt ASTM D445 45.0 44.9							
	Visc @ 40°C	cSt	ASTM D445		44.8	45.0	44.9



* - 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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