

OIL ANALYSIS REPORT

PRESS Machine to PRESS COOLING AND FILTERING (S/N PR205F20)

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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



		methoa	IIIIII/Dase	current	TIIStory I	TIIStory2
Sample Number		Client Info		WC0895150	WC0895142	WC0895058
Sample Date		Client Info		08 Jul 2024	30 May 2024	23 Apr 2024
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ATTENTION
CONTAMINATION	I	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	3	2
Tin	ppm	ASTM D5185m	>20	0	<1	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	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m	5	0 0	<1 <1	<1 0
			5 25			
Manganese	ppm	ASTM D5185m		0	<1	0
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	25	0 5	<1 4	0 2
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	25 200	0 5 65	<1 4 68	0 2 80
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	25 200 300	0 5 65 370	<1 4 68 373	0 2 80 351
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	25 200 300 370	0 5 65 370 479 1052	<1 4 68 373 448	0 2 80 351 456
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	25 200 300 370 2500	0 5 65 370 479 1052 current 0	<1 4 68 373 448 976	0 2 80 351 456 991
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	25 200 300 370 2500 limit/base	0 5 65 370 479 1052 current	<1 4 68 373 448 976 history1	0 2 80 351 456 991 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	25 200 300 370 2500 limit/base >15	0 5 65 370 479 1052 current 0	<1 4 68 373 448 976 history1 <1	0 2 80 351 456 991 history2 <1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	25 200 300 370 2500 imit/base >20 imit/base	0 5 65 370 479 1052 current 0 <1 0 current	<1 4 68 373 448 976 history1 <1 <1	0 2 80 351 456 991 history2 <1 1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	25 200 300 370 2500 limit/base >20 limit/base >320	0 5 65 370 479 1052 <u>current</u> 0 <1 0 <u>current</u> 222	<1 4 68 373 448 976 history1 <1 1 bistory1 574	0 2 80 351 456 991 history2 <1 1 <1 \$1 \$1 \$1 \$546
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	25 200 300 2500 limit/base >15 >20 limit/base >320 >320	0 5 65 370 479 1052 <u>current</u> 0 <1 0 < <u>current</u> 222 35	<1 4 68 373 448 976 history1 <1 1 history1 574 56	0 2 80 351 456 991 history2 <1 1 <1 <1 history2 546 84
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	25 200 300 2500 limit/base >15 >20 limit/base >320 >320 >80 >10	0 5 65 370 479 1052 <u>current</u> 0 <1 0 < <u>current</u> 222 35 3	<1 4 68 373 448 976 history1 <1 1 574 56 11	0 2 80 351 456 991 history2 <1 1 <1 <1 546 546 84 7
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	25 200 300 2500 limit/base >15 >20 limit/base >320 >320 >80 >10	0 5 65 370 479 1052 current 0 <1 0 <1 0 222 35 35 3 1	<1 4 68 373 448 976 history1 <1 1 574 56 11 7 7	0 2 80 351 456 991 history2 <1 1 <1 546 546 84 7 2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	25 200 300 2500 2500 1imit/base >15 >20 20 1imit/base >320 >80 >10 >3 >3	0 5 65 370 479 1052 current 0 <1 0 <1 0 222 35 3 3 1 1 0	<1 4 68 373 448 976 history1 <1 1 574 56 11 7 5 5	0 2 80 351 456 991 history2 <1 1 <1 <1 546 546 84 7 2 2 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	25 200 300 2500 2500 1imit/base >15 >20 20 1imit/base >320 >80 >10 >3 >3	0 5 65 370 479 1052 current 0 <1 0 <1 0 222 35 35 3 1	<1 4 68 373 448 976 history1 <1 1 574 56 11 7 5 3 3	0 2 80 351 456 991 history2 <1 1 <1 *1 bistory2 • 546 • 84 7 2 2 0 0 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4μm Particles >6μm Particles >14μm Particles >21μm Particles >38μm Particles >71μm Oil Cleanliness	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	25 200 300 2500 2500 1imit/base >15 >20 20 1imit/base >320 >80 >10 >3 >3	0 5 65 370 479 1052 current 0 <1 0 <1 0 222 35 3 3 1 1 0	<1 4 68 373 448 976 history1 <1 1 574 56 11 7 5 5	0 2 80 351 456 991 history2 <1 1 <1 <1 546 546 84 7 2 2 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	25 200 300 2500 2500 limit/base >20 limit/base >320 >80 >10 >3 >3 >3 >3	0 5 65 370 479 1052 current 0 <1 0 <1 0 current 222 35 3 3 1 0 0 0 0	<1 4 68 373 448 976 history1 <1 1 574 56 11 7 5 3 3	0 2 80 351 456 991 history2 <1 1 <1 *1 bistory2 • 546 • 84 7 2 2 0 0 0

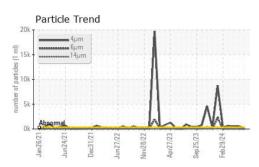
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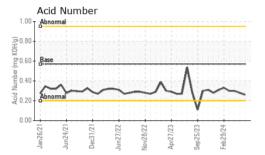
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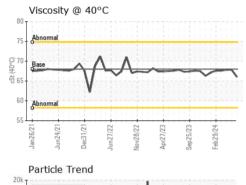
Sample Rating Trend

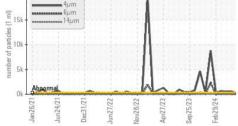


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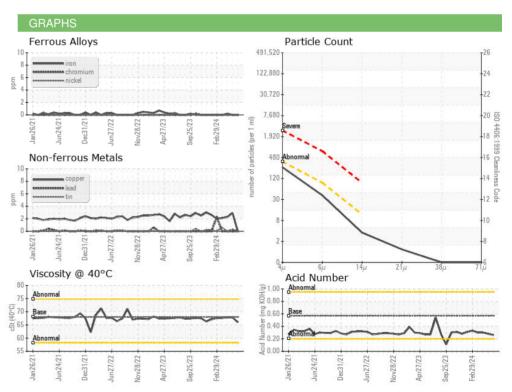








VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES						
FLUID PROPERT	IES	method	limit/base	current	history1	history2
FLUID PROPERT Visc @ 40°C	TIES cSt	method ASTM D445	limit/base 68	current 66.0	history1 67.8	history2 67.8
	cSt					
Visc @ 40°C	cSt	ASTM D445	68	66.0	67.8	67.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 J.M. Huber Corporation : WC0895150 Sample No. Received : 11 Jul 2024 PO BOX 38 Lab Number : 06233827 Tested : 12 Jul 2024 CRYSTAL HILL, VA Unique Number : 11122661 Diagnosed : 12 Jul 2024 - Wes Davis US 24539 Test Package : IND 2 Contact: Ted Hudson Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ted.hudson@huber.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (434)476-6628 F: (434)476-8133

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

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