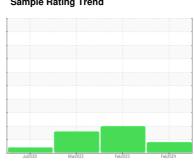


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 100119113

Component

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. 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 light amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

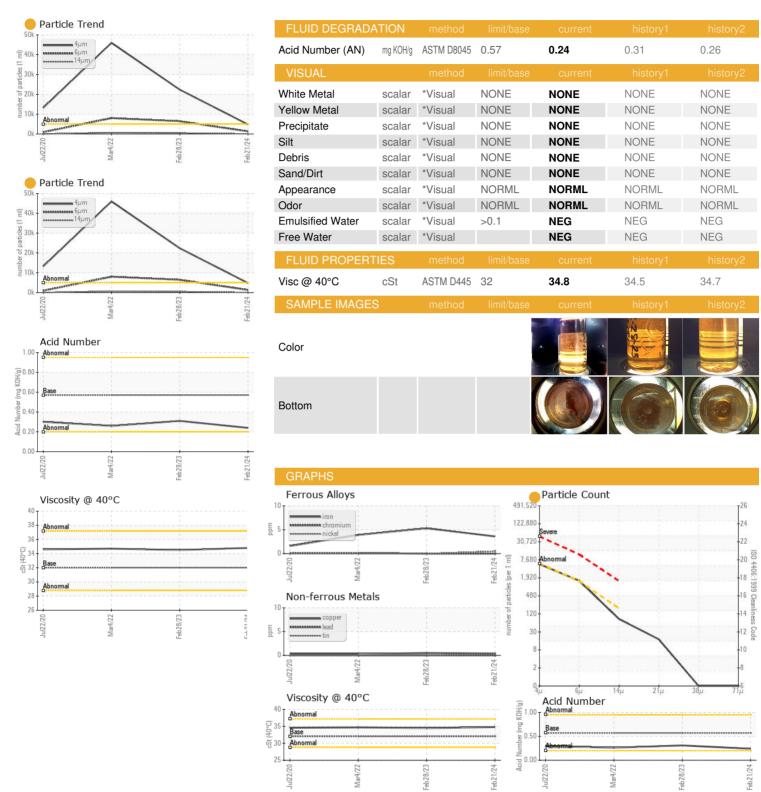
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jul2020) Mar2022	Feb 2023 Fe	eb2024	
SAMPLE INFORM	MATION					
Sample Number		Client Info		WC0881301	WC0780075	WC0648708
Sample Date		Client Info		21 Feb 2024	28 Feb 2023	04 Mar 2022
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	5	4
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		2	3	2
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m		<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
					Ü	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm		limit/base	-		
		method		current	history1	history2
Boron Barium	ppm	method ASTM D5185m	5	current 7	history1	history2 8 0 2
Boron Barium Molybdenum Manganese	ppm	method ASTM D5185m ASTM D5185m	5 5 5	current 7 0	history1 8 0	history2 8 0 2
Boron Barium Molybdenum Manganese Magnesium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	5 5	current 7 0 2	history1 8 0 2 0 17	history2 8 0 2 0 17
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 5 25 200	current 7 0 2 <1 16 203	history1 8 0 2 0 17 213	history2 8 0 2 0 17 196
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300	current 7 0 2 <1 16 203 244	history1 8 0 2 0 17 213 317	history2 8 0 2 0 17 196 319
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370	current 7 0 2 <1 16 203 244 384	history1 8 0 2 0 17 213 317 403	history2 8 0 2 0 17 196 319 376
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300	current 7 0 2 <1 16 203 244	history1 8 0 2 0 17 213 317	history2 8 0 2 0 17 196 319
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370	current 7 0 2 <1 16 203 244 384	history1 8 0 2 0 17 213 317 403 1766 history1	history2 8 0 2 0 17 196 319 376 1595 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500	current 7 0 2 <1 16 203 244 384 2109 current 7	history1 8 0 2 0 17 213 317 403 1766 history1 8	history2 8 0 2 0 17 196 319 376 1595 history2 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base	current 7 0 2 <1 16 203 244 384 2109 current 7	history1 8 0 2 0 17 213 317 403 1766 history1 8 7	history2 8 0 2 0 17 196 319 376 1595 history2 7
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >20	current 7 0 2 <1 16 203 244 384 2109 current 7	history1 8 0 2 0 17 213 317 403 1766 history1 8	history2 8 0 2 0 17 196 319 376 1595 history2 7 8 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >20	current 7 0 2 <1 16 203 244 384 2109 current 7 9 <1	history1 8 0 2 0 17 213 317 403 1766 history1 8 7 1 history1	history2 8 0 2 0 17 196 319 376 1595 history2 7 8 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >20 limit/base >5000	current 7 0 2 <1 16 203 244 384 2109 current 7 9 <1 current 4798	history1 8 0 2 0 17 213 317 403 1766 history1 8 7 1 history1 ▲ 22368	history2 8 0 2 0 17 196 319 376 1595 history2 7 8 <1 history2 ▲ 45961
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m	5 5 5 25 200 300 370 2500 limit/base >20 >20 limit/base >5000 >1300	current 7 0 2 <1 16 203 244 384 2109 current 7 9 <1 current 4798 1330	history1 8 0 2 0 17 213 317 403 1766 history1 8 7 1 history1 △ 22368 △ 6432	history2 8 0 2 0 17 196 319 376 1595 history2 7 8 <1 history2 45961 7997
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >20 >20 limit/base >5000 >1300 >160	current 7 0 2 <1 16 203 244 384 2109 current 7 9 <1 current 4798 1330 71	history1 8 0 2 0 17 213 317 403 1766 history1 8 7 1 history1 △ 22368 △ 6432 △ 490	history2 8 0 2 0 17 196 319 376 1595 history2 7 8 <1 history2 45961 7997 662
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >20 >20 limit/base >5000 >1300 >160 >40	current 7 0 2 <1 16 203 244 384 2109 current 7 9 <1 current 4798 1330 71 15	history1 8 0 2 0 17 213 317 403 1766 history1 8 7 1 history1 ▲ 22368 ▲ 6432 ▲ 490 ▲ 84	history2 8 0 2 0 17 196 319 376 1595 history2 7 8 <1 history2 45961 7997 662 136
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >20 >20 limit/base >160 >40 >10	current 7 0 2 <1 16 203 244 384 2109 current 7 9 <1 current 4798 1330 71 15 0	history1 8 0 2 0 17 213 317 403 1766 history1 8 7 1 history1 ▲ 22368 ▲ 6432 ▲ 490 ▲ 84 4	history2 8 0 2 0 17 196 319 376 1595 history2 7 8 <1 history2 45961 7997 662 136 9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	5 5 5 25 200 300 370 2500 limit/base >20 >20 limit/base >160 >40 >10	current 7 0 2 <1 16 203 244 384 2109 current 7 9 <1 current 4798 1330 71 15	history1 8 0 2 0 17 213 317 403 1766 history1 8 7 1 history1 ▲ 22368 ▲ 6432 ▲ 490 ▲ 84	history2 8 0 2 0 17 196 319 376 1595 history2 7 8 <1 history2 45961 7997 662 136

Contact/Location: ERIC HILL - PALTIF



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No.

Lab Number : 06131963 Unique Number: 10951428

: WC0881301

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Mar 2024 **Tested** : 29 Mar 2024

: 29 Mar 2024 - Wes Davis Diagnosed

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)

PALFINGER - BRANCH 400

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T: (419)448-8156