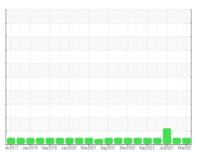


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# AMERICAN PAC5029-8T30 9284111

Hydraulic System

**AW HYDRAULIC OIL ISO 46 (--- QTS)** 

## 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 oil. The amount and size of particulates present in the system are acceptable.

## **Fluid Condition**

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

		eb2017 Jan201	8 Sep2018 Jan2020 Mar2	021 Sep2021 Mar2022 Sep2022 Ju	12023 Mar202	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PTK0005515	PTK0004140	PTK0004153
Sample Date		Client Info		29 Mar 2024	12 Oct 2023	03 Jul 2023
Machine Age	hrs	Client Info		24148	24183	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	N	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	1	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	2	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	5	0 <1	0	0
				•		
Molybdenum	ppm	ASTM D5185m		<1	0	0
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	5	<1 <1	0 <1	0
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5 25	<1 <1 1	0 <1 0	0 0 3
Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200	<1 <1 1 93	0 <1 0 92	0 0 3 113
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200 300	<1 <1 1 93 84	0 <1 0 92 83	0 0 3 113 104
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200 300 370	<1 <1 1 93 84 99	0 <1 0 92 83 92	0 0 3 113 104 125
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200 300 370 2500	<1 <1 1 93 84 99 1673	0 <1 0 92 83 92 1594	0 0 3 113 104 125 2325
Molybdenum 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 ASTM D5185m	5 25 200 300 370 2500 limit/base	<1 <1 1 93 84 99 1673 current	0 <1 0 92 83 92 1594 history1	0 0 3 113 104 125 2325 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	5 25 200 300 370 2500 limit/base	<1 <1 <1 1 93 84 99 1673 current	0 <1 0 92 83 92 1594 history1 <1	0 0 3 113 104 125 2325 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m	5 25 200 300 370 2500 limit/base >20	<1 <1 <1 1 93 84 99 1673 current 1 <1	0 <1 0 92 83 92 1594 history1 <1 1	0 0 3 113 104 125 2325 history2 <1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m	5 25 200 300 370 2500 limit/base >20 >20	<1 <1 <1 1 93 84 99 1673 current 1 <1 <1 <1	0 <1 0 92 83 92 1594 history1 <1 1 0	0 0 3 113 104 125 2325 history2 <1 <1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm	ASTM D5185m	5 25 200 300 370 2500 limit/base >20 >20	<1 <1 1 93 84 99 1673 current 1 <1 <1 <1 current	0 <1 0 92 83 92 1594 history1 <1 0 history1	0 0 3 113 104 125 2325 history2 <1 <1 0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm	ASTM D5185m  Method ASTM D5185m	5 25 200 300 370 2500 limit/base >20  limit/base	<1 <1 <1 1 93 84 99 1673 current 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	0 <1 0 92 83 92 1594 history1 <1 0 history1 744	0 0 3 113 104 125 2325 history2 <1 <1 0 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D5185m  method ASTM D5185m	5 25 200 300 370 2500 limit/base >20	<1 <1 <1 1 93 84 99 1673 current 1 <1 <1 <1 <1 727 196	0	0 0 3 113 104 125 2325 history2 <1 <1 0 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm	ASTM D5185m  Method ASTM D5185m ASTM D5185m  Method ASTM D5185m	5 25 200 300 370 2500 limit/base >20 limit/base >20 >20 >2500 >320	<1 <1 <1 1 93 84 99 1673 current 1 <1 <1 <1 <1 <1 <1 196 13	0	0 0 3 113 104 125 2325 history2 <1 <1 0 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm	ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	5 25 200 300 370 2500 limit/base >20  limit/base >20  >2500 >20  >2500 >20  >2500 >200 >2	<1 <1 <1 1 93 84 99 1673 current 1 <1 <1 <1 <1  current 727 196 13 3	0 <1 0 92 83 92 1594 history1 <1 1 0 history1 744 183 13 3	0 0 3 113 104 125 2325 history2 <1 <1 0 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm	ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	5 25 200 300 370 2500 limit/base >20  limit/base >20  >2500 >20  >2500 >20  >2500 >200 >2	<1 <1 <1 1 93 84 99 1673 current 1 <1 <1 <1 <1  current 727 196 13 3 0	0 <1 0 92 83 92 1594 history1 <1 1 0 history1 744 183 13 3 0	0 0 3 113 104 125 2325 history2 <1 <1 0 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm	ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	5 25 200 300 370 2500 limit/base >20 >20 limit/base >20 >2500 >20 >2500 >320 >320 >320 >4	<1 <1 <1 1 93 84 99 1673 current 1 <1 <1 <1  current 727 196 13 3 0 0 0	0 <1 0 92 83 92 1594 history1 <1 1 0 history1 744 183 13 0 0 0	0 0 3 113 104 125 2325 history2 <1 <1 0 history2

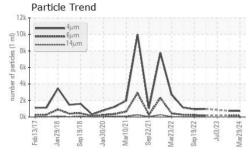
Acid Number (AN)

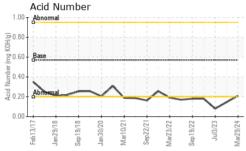
mg KOH/g ASTM D8045 0.57

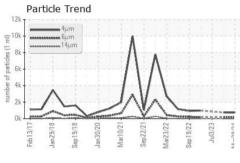
0.145

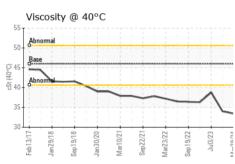


## **OIL ANALYSIS REPORT**





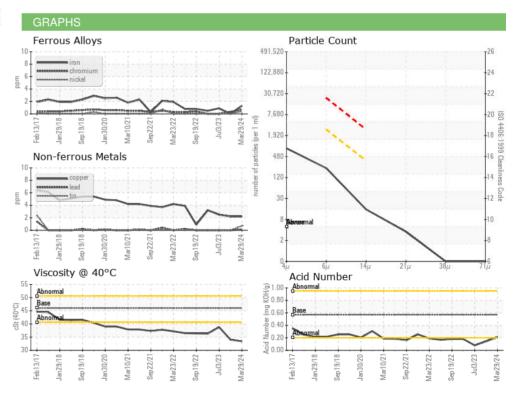




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	33.4	34.0	38.78

SAMPLE IMAGES	method		history2
Color			









Certificate 12367

Laboratory Sample No. Lab Number : 06138038 Unique Number : 10962846

Test Package : MOB 2

: PTK0005515

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

Received : 03 Apr 2024 **Tested** 

: 04 Apr 2024 Diagnosed : 05 Apr 2024 - Don Baldridge

SHRED-IT COLUMBIA 6770 OAK HALL LN, #107

COLUMBIA, MD US 21045

Contact: SERVICE MANAGER

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)

Report Id: SHRCOL [WUSCAR] 06138038 (Generated: 04/05/2024 19:22:37) Rev: 1

Contact/Location: SERVICE MANAGER ? - SHRCOL

T:

F: