

Machine Id **HLO** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- GAL)**

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.

Please specify the component make and model with your next sample.



All component wear rates are normal.

CONTAMINATION

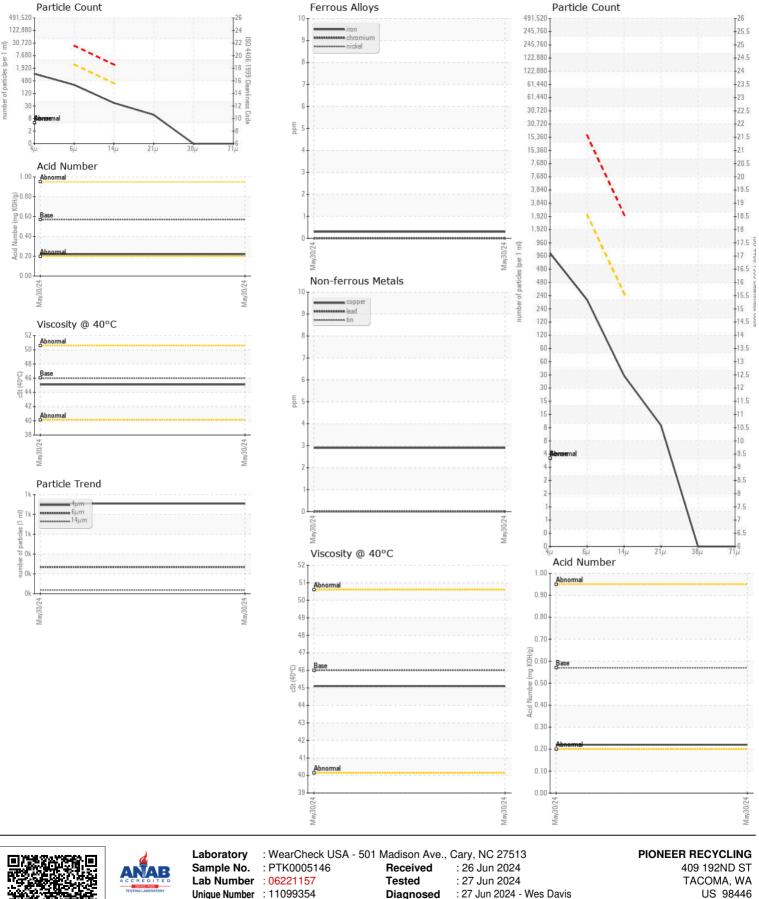
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PTK0005146		
Sample Date		Client Info		30 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
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Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	3		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	2		
Potassium	ppm	ASTM D5185m	>20	1		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647		909		
Particles >6µm		ASTM D7647	>2500	269		
Particles >14µm		ASTM D7647	>320	37		
Particles >21µm		ASTM D7647	>80	10		
Particles >38µm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>/18/15	17/15/12		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Sodium	000	ACTM DE10Em		4		
Sodium	ppm	ASTM D5185m ASTM D5185m	5	1		
Boron	ppm			1		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	<1		
Manganese	ppm	ASTM D5185m	25	<1 2		
Magnesium	ppm	ASTM D5185m	25	2		
Calcium	ppm	ASTM D5185m	200	80 250		
Phosphorus	ppm	ASTM D5185m	300	359		
Zinc	ppm	ASTM D5185m	370	446		
Sulfur	ppm	ASTM D5185m	2500	1044		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.22		
Visc @ 40°C	cSt	ASTM D445	46	45.1		

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



Certificate L2367

Test Package : MOB 2 Contact: JAMES DAWSON To discuss this sample report, contact Customer Service at 1-800-237-1369. jamesdawson@pioneerrs.com * - 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)

Contact/Location: JAMES DAWSON - PIOTAC Page 2 of 2

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