

OIL ANALYSIS REPORT

Sample Rating Trend



Area **RIG 879** Machine Id **R879-HPU** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KL0014321	KL0014303	KL0013730	
Sample Date		Client Info		07 May 2024	03 Apr 2024	05 Mar 2024	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	ATTENTION	
CONTAMINATION	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	0	0	0	
Chromium	ppm	ASTM D5185m	>10	0	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		<1	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	0	0	
Lead	ppm	ASTM D5185m	>10	0	0	0	
Copper	ppm	ASTM D5185m	>75	2	0	<1	
Tin	ppm	ASTM D5185m	>10	0	0	0	
Vanadium	ppm	ASTM D5185m		<1	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	0	0	
Manganese	ppm	ASTM D5185m		0	0	0	
Magnesium	ppm	ASTM D5185m	25	3	4	0	
Calcium	ppm	ASTM D5185m	200	53	54	44	
Phosphorus	ppm	ASTM D5185m	300	309	317	261	
Zinc	ppm	ASTM D5185m	370	394	394	350	
Sulfur	ppm	ASTM D5185m	2500	2429	2535	2147	
CONTAMINANTS	i -	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	2	2	1	
Sodium	ppm	ASTM D5185m		2	<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	0	0	
FLUID CLEANLINESS method			limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	2482	4627	7652	
Particles >6µm		ASTM D7647	>1300	242	994	877	
Particles >14µm		ASTM D7647	>160	10	50	30	
Particles >21µm		ASTM D7647	>40	2	7	5	
Particles >38µm		ASTM D7647	>10	0	1	0	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/10	19/17/13	20/17/12	
FLUID DEGRADA		method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.31	0.34	0.35	
1:33:16) Rev: 1					Submitted By: Mike Richardson		



OIL ANALYSIS REPORT









VISUAL		method	limit/base	current	history1	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	46.4	46.8	46.3
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color				·		
Bottom						





Report Id: PATMIDTX [WUSCAR] 06181295 (Generated: 05/17/2024 11:33:16) Rev: 1

Submitted By: Mike Richardson

Page 2 of 2