

OIL ANALYSIS REPORT

Sample Rating Trend SEDIMENT

LINE 20 UNILOY (S/N 4914) Component

Hydraulic System AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample.

Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0794135	WC0851673	WC0736472
Sample Date		Client Info		25 Feb 2024	19 Dec 2023	16 Jul 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	3	2
Tin	ppm	ASTM D5185m	>20	0	0	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	6	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	25	0	0	0
Calcium	ppm	ASTM D5185m	200	8	17	19
Phosphorus	ppm	ASTM D5185m	300	296	356	318
Zinc	ppm	ASTM D5185m	370	247	276	313
Sulfur	ppm	ASTM D5185m	2500	756	913	951
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	0
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		▲ 5420	2474
Particles >6µm		ASTM D7647	>1300		605	631
Particles >14µm		ASTM D7647	>160		22	45
Particles >21µm		ASTM D7647	>40		6	15
Particles >38µm		ASTM D7647	>10		1	0
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14		▲ 20/16/12	18/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.35	0.49	0.35



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VISUAL method limit/base history1 history2 current NONE White Metal *Visual NONE NONE NONE scalar Yellow Metal NONE NONE NONE NONE scalar *Visual Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE MODER NONE NONE NONE Debris *Visual NONE NONE NONE scalar NONE Sand/Dirt scalar *Visual NONE NONE NONE scalar NORML Appearance *Visual NORML NORML NORML Odor NORML NORML NORML scalar *Visual NORML *Visual **Emulsified Water** scalar >0.05 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG FLUID PROPERTIES method limit/base current history history2 Visc @ 40°C cSt ASTM D445 68 64.4 63.9 64.6 SAMPLE IMAGES method limit/base history2 current historv1

Color



Bottom



Certificate L2367

Contact/Location: MIKE BARBOUR - CONVERPA