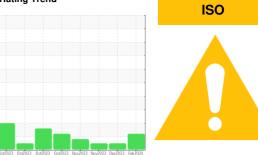


OIL ANALYSIS REPORT

Sample Rating Trend



Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Area RIG 879

R879-HPU

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high 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.

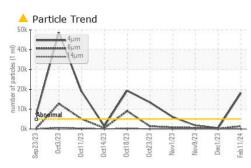
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0013935	KL0013174	KL0013137
Sample Date		Client Info		11 Feb 2024	01 Dec 2023	09 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
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	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm		>75	1	1	0
Tin	ppm	ASTM D5185m	>10	<1	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	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	25	6	3	3
Calcium	ppm	ASTM D5185m	200	57	50	60
Phosphorus	ppm	ASTM D5185m	300	340	326	337
Zinc	ppm	ASTM D5185m	370	433	415	430
Sulfur	ppm	ASTM D5185m	2500	2330	2210	2236
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	2	2
Sodium	ppm	ASTM D5185m	220	2	2	0
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304		NEG	NEG	NEG
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	18152	461	1779
Particles >6µm		ASTM D7647	>1300	1390	134	543
Particles >14µm		ASTM D7647	>160	36	9	42
Particles >21µm		ASTM D7647	>40	7	2	13
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	21/18/12	16/14/10	18/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.31	0.22	0.30
			5.67	0.01	0.22	0.00

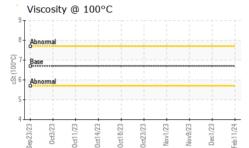


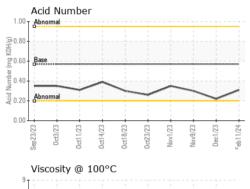
OIL ANALYSIS REPORT

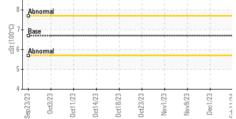
Color

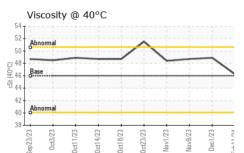
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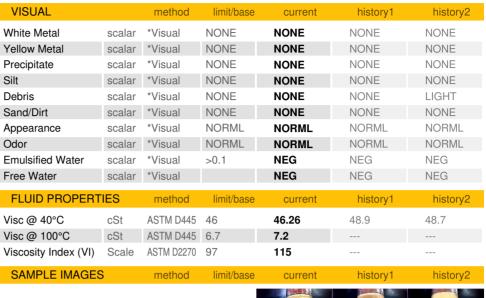














Certificate L2367

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Submitted By: Mike Richardson

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