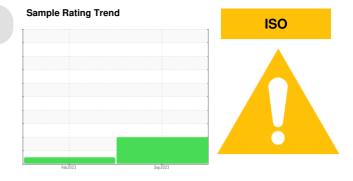


PROBLEM SUMMARY

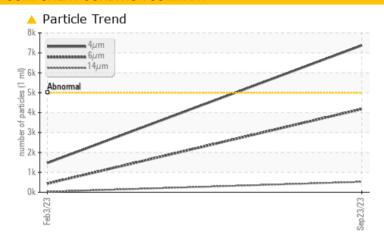
Area [41035150] DVT 2

Component Pump Fluid

NOT GIVEN (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	NORMAL					
Particles >4µm	ASTM D7647	>5000	△ 7373	1470					
Particles >6µm	ASTM D7647	>1300	4180	435					
Particles >14μm	ASTM D7647	>160	△ 523	27					
Particles >21μm	ASTM D7647	>40	104	4					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/19/16	18/16/12					

Customer Id: HILDAL Sample No.: USP0001814 Lab Number: 05964224 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

03 Feb 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. Please specify the brand and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. Viscosity and phosphorus confirmed.





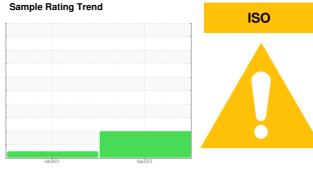
OIL ANALYSIS REPORT

Area [41035150] DVT 2

Component

Pump

NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

			Feb 2023	Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0001814	USP245512	
Sample Date		Client Info		23 Sep 2023	03 Feb 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	0	<1	
Chromium	ppm	ASTM D5185m	>5	0	0	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>7	0	0	
Lead	ppm	ASTM D5185m	>12	0	0	
Copper	ppm	ASTM D5185m	>30	<1	<1	
Tin	ppm	ASTM D5185m	>9	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		0	2	
Phosphorus	ppm	ASTM D5185m		103	96	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		78	0	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	0	<1	
Sodium	ppm	ASTM D5185m		<1	1	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>.1	0.001	0.002	
ppm Water	ppm	ASTM D6304	>1000	0.00	24.4	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 7373	1470	
Particles >6µm		ASTM D7647	>1300	4180	435	
Particles >14µm		ASTM D7647	>160	▲ 523	27	
Particles >21µm		ASTM D7647	>40	<u> </u>	4	
Particles >38µm		ASTM D7647	>10	3	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/19/16	18/16/12	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	0.36	



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

Test Package

: USP0001814 : 05964224

Received : 10670775

Diagnosed Diagnostician

: 28 Sep 2023 : 29 Sep 2023

: Doug Bogart

DALHART, TX

Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: IND 2

* - 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)

T: F: