

PROBLEM SUMMARY

WEAR

L91 (S/N 3007795956-300)

Circulating System

NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

Microscope image review: Sludge is primarily abrasives (dirt) and ferrous debris. Wear present seems to have significant thermal discoloration suggesting extreme temperatures during formation. Wear modes were not readily available from the extreme amount of contamination, but larger debris appeared to be fatigue or sliding wear most likely.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	1	934611				
Chromium	ppm	ASTM D5185m	I	e 120				
Nickel	ppm	ASTM D5185m		🛑 105				
Titanium	ppm	ASTM D5185m	1	e 20				
Aluminum	ppm	ASTM D5185m		<u> </u>				
Silicon	ppm	ASTM D5185m	I	e 1253				
PrtFilter					no image	no image		

Customer Id: SIEKAN Sample No.: WC0811633 Lab Number: 06029022 Test Package: IND 1



To manage this report scan the QR code

To discuss the diagnosis or test data: Aaron Black +1 aaron.black@wearcheck.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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	We recommend an early resample to monitor this condition.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

SAMPLE INFORMATION

WEAR

L91 (S/N 3007795956-300)

Circulating System Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Microscope image review: Sludge is primarily abrasives (dirt) and ferrous debris. Wear present seems to have significant thermal discoloration suggesting extreme temperatures during formation. Wear modes were not readily available from the extreme amount of contamination, but larger debris appeared to be fatigue or sliding wear most likely.

🛑 Wear

Chromium and nickel, titanium and iron ppm levels are severe. Aluminum ppm levels are abnormal.

Contamination

High concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.



Particle Filter (Magn: 500 x)



CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		e 1253		
Sodium	ppm	ASTM D5185m		40		
Potassium	ppm	ASTM D5185m	>20	7		



OIL ANALYSIS REPORT





Contact/Location: BRIAN JOHNSON - SIEKAN