

PROBLEM SUMMARY



Machine Id **20-PC-23 (S/N 429)** Component Hydraulic System Fluid

MILITARY MIL-PRF-87257 (--- LTR)







RECOMMENDATION

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL				
Silicon	ppm	ASTM D5185m	>15	<u> </u>				
Acid Number (AN)	mg KOH/g	ASTM D8045		A 0.232				
Visc @ 40°C	cSt	ASTM D445	6.7	<u> </u>				

Customer Id: WOOSANCA Sample No.: WC0826401 Lab Number: 05997065 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.			
Resample			?	We recommend an early resample to monitor this condition.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 20-PC-23 (S/N 429) Component

Hydraulic System MILITARY MIL-PRF-87257 (--- LTR)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The water content is negligible. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		WC0826401		
Sample Date		Client Info		01 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>20	0		
Chromium	nnm	ASTM D5185m	>20	0		
Nickel	nnm	ASTM D5185m	>20	0		
Titanium	nnm	ASTM D5185m	200	0		
Silver	nnm	ASTM D5185m		0		
Aluminum	nnm	ASTM D5185m	>20	0		
Lead	nnm	ASTM D5185m	>20	0		
Conner	nnm	ASTM D5185m	>20	0		
Tin	nnm	ASTM D5185m	>20	0		
Vanadium	nnm	ASTM D5185m	220	0		
Cadmium	ppm	ASTM D5185m		0		
	le le	mothod	limit/bass	ourront	historyd	bioton/2
ADDITIVE5		method	inniv base	current	TIISTOLA I	nistory2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		308		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		55		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<u> </u>		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	0.010		
ppm Water	ppm	ASTM D6304	>500	106.9		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	80		
Particles >6µm		ASTM D7647	>1300	25		
Particles >14µm		ASTM D7647	>160	5		
Particles >21µm		ASTM D7647	>40	2		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	13/12/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 0.232		



Î

particles (per

2000

1000

Abnorma

OIL ANALYSIS REPORT





history1

current

NONE

NONE

NONE

NONE

NONE

history2



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