

PROBLEM SUMMARY

Sample Rating Trend



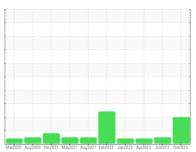
Area [98557573]

KR-GR-000017 - MARLEN (S/N STUFF D - 11513137)

Component

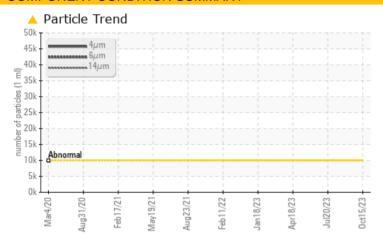
Hydraulic System

R&O OIL ISO 100 (40 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	ABNORMAL					
Particles >4µm	ASTM D7647 >1	0000 45106							
Particles >6µm	ASTM D7647 >2	500 🔺 16078							
Particles >14µm	ASTM D7647 >6	40 △ 1630							
Particles >21µm	ASTM D7647 >1	6 0 453							
Oil Cleanliness	ISO 4406 (c) >2	0/18/16 🔺 23/21/18							

Customer Id: KRAKIR Sample No.: PCA0108228 Lab Number: 05986431 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@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

20 Jul 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



18 Apr 2023 Diag: Angela Borella

VIS DERRIS



We suspect abnormal contamination may be due to sampling method. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



18 Jan 2023 Diag: Don Baldridge

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. Confirm oil type.





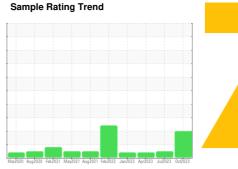
OIL ANALYSIS REPORT

Area [98557573]

KR-GR-000017 - MARLEN (S/N STUFF D - 11513137)

Hydraulic System

R&O OIL ISO 100 (40 GAL)





DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

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

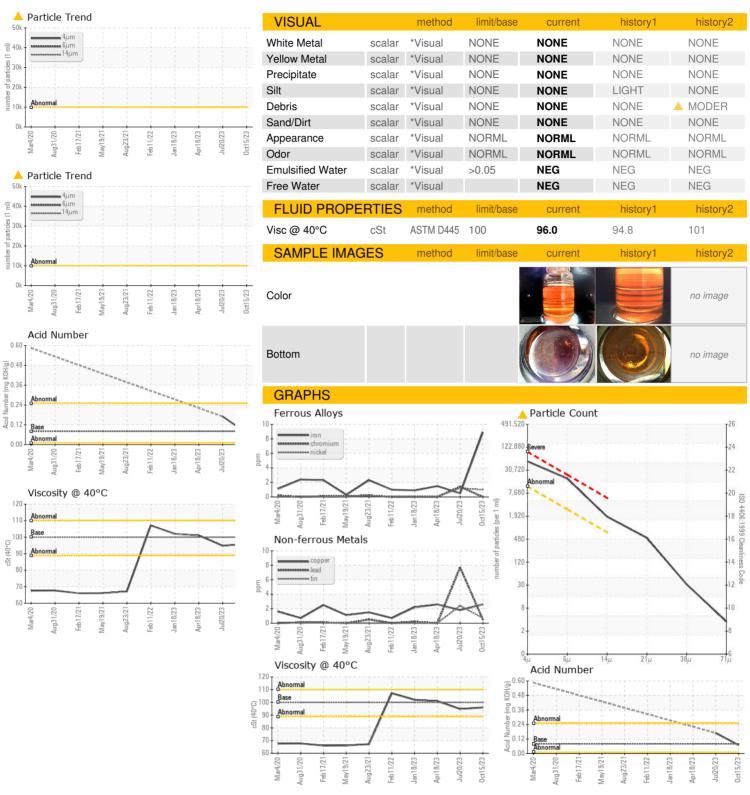
Fluid Condition

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

		Mar2020 Aug2	020 Feb2021 May2021 Aug2	021 Feb2022 Jan2023 Apr2023 Jul20	023 Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108228	PCA0102539	PCA0093101
Sample Date		Client Info		15 Oct 2023	20 Jul 2023	18 Apr 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	ABNORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	9	<1	2
Chromium	ppm	ASTM D5185m	>20	0	1	0
Nickel	ppm	ASTM D5185m	>20	1	1	0
Titanium	ppm	ASTM D5185m		0	1	0
Silver	ppm	ASTM D5185m		0	3	0
Aluminum	ppm	ASTM D5185m	>20	3	0	0
Lead	ppm	ASTM D5185m	>20	<1	8	0
Copper	ppm	ASTM D5185m	>20	3	2	3
Tin	ppm	ASTM D5185m	>20	<1	2	0
Vanadium	ppm	ASTM D5185m		0	2	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	<1	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	1	1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	5	3	19	0
Calcium	ppm	ASTM D5185m	5	4	0	0
Phosphorus	ppm	ASTM D5185m	100	550	296	245
Zinc	ppm	ASTM D5185m	25	0	0	3
Sulfur	ppm	ASTM D5185m	1500	1556	1531	768
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	3	1
Sodium	ppm	ASTM D5185m		4	43	0
Potassium	ppm	ASTM D5185m	>20	3	100	<1
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	45106		
Particles >6μm		ASTM D7647	>2500	<u> </u>		
Particles >14µm		ASTM D7647	>640	<u> </u>		
Particles >21µm		ASTM D7647	>160	453		
Particles >38µm		ASTM D7647	>40	28		
Particles >71µm		ASTM D7647	>10	3		
Oil Cleanliness		ISO 4406 (c)	>20/18/16	<u>23/21/18</u>		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	0.07	0.17	



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 05986431 : 10709093 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 23 Oct 2023 : PCA0108228 Received

: 25 Oct 2023 Diagnosed Diagnostician : Jonathan Hester

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

KraftHeinz - Kirksville - Plant 8333 PCA

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Contact: WALLACE WARD wallace.ward@kraftheinzcompany.com

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)