

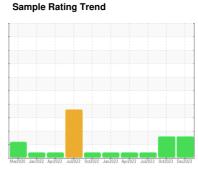
OIL ANALYSIS REPORT

TUMBLE ROOM [98650913]

KR-GR-003068 - TUMBLER 3 (S/N TUMBLE ROOM - 11513091)

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)





DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (Customer Sample Comment: 98650913)

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

Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Mud2020 Jun2022 Apr2022 Jun2022 Onc2022 Jun2023 Apr2023 Jun2023 Onc2023 Onc2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114842	PCA0106052	PCA0096609
Sample Date		Client Info		20 Dec 2023	25 Oct 2023	17 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	0	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	4	3	4
Tin	ppm	ASTM D5185m	>20	0	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	<1	0
Magnesium	ppm	ASTM D5185m	25	0	4	1
Calcium	ppm	ASTM D5185m	200	0	5	2
Phosphorus	ppm	ASTM D5185m	300	337	400	401
Zinc	ppm	ASTM D5185m	370	2	37	51
Sulfur	ppm	ASTM D5185m	2500	884	1226	1458
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	4	3
Sodium	ppm	ASTM D5185m		3	0	<1
Potassium	ppm	ASTM D5185m	>20	2	0	0
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u>▲</u> 61733	<u>▲</u> 52670	
Particles >6µm		ASTM D7647	>2500	<u> </u>	<u>^</u> 2854	
Particles >14µm		ASTM D7647	>640	70	13	
Particles >21µm		ASTM D7647	>160	18	2	
Particles >38µm		ASTM D7647	>40	1	0	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/16	23/19/13	<u>\$\text{\Delta}\$ 23/19/11</u>	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Asid Number (ANI)	I/OII/-	ACTM DODAE	0.57	0.10	0.10	

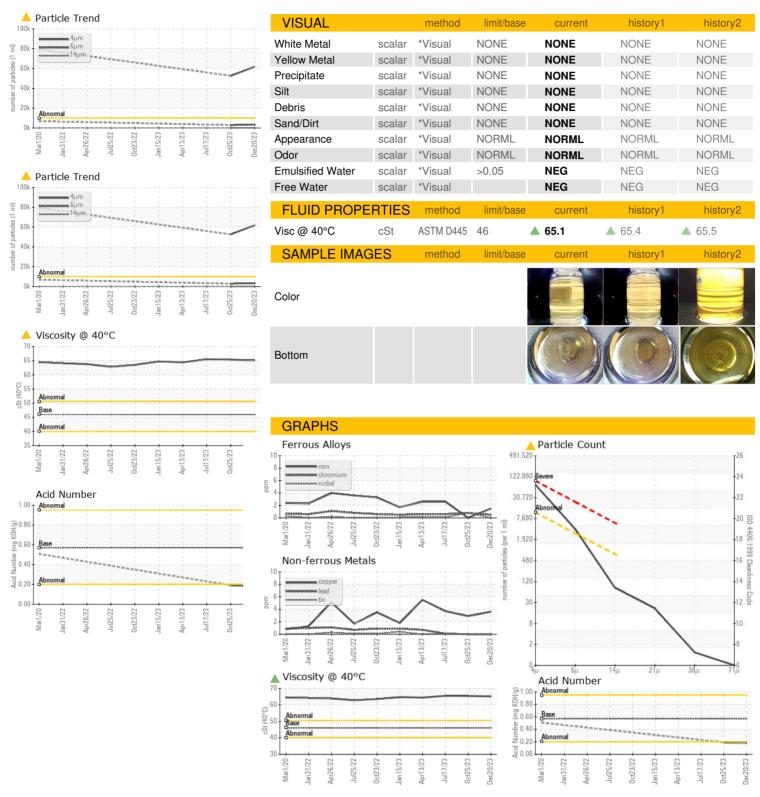
Acid Number (AN)

mg KOH/g ASTM D8045 0.57

0.19



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

Test Package : IND 2 Certificate L2367

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0114842 : 06047748

: 10808356

Recieved : 29 Dec 2023 : 02 Jan 2024 Diagnosed Diagnostician

: Don Baldridge

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. wallace.ward@kraftheinzcompany.com

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

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KIRKSVILLE, MO

US 63501

2504 INDUSTRIAL DR

Contact: WALLACE WARD

KraftHeinz - Kirksville - Plant 8333 PCA