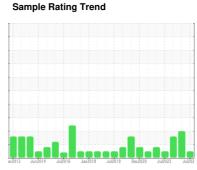


# **OIL ANALYSIS REPORT**

# [603778807 SR] K REFINER 5 (S/N 20061348)

**Hydraulic System** 

AW HYDRAULIC OIL ISO 68 (--- GAL)





### DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

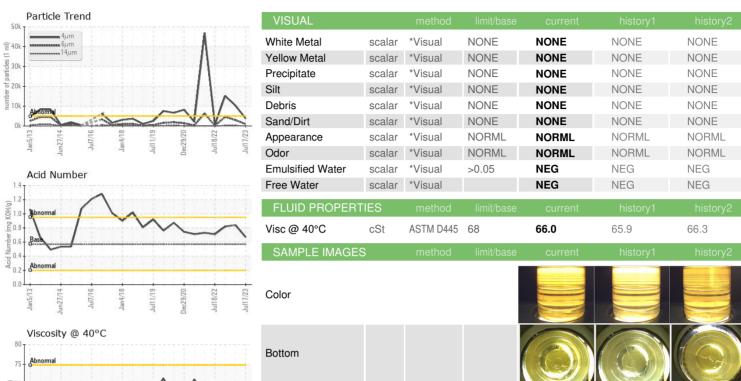
#### **Fluid Condition**

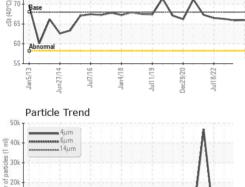
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

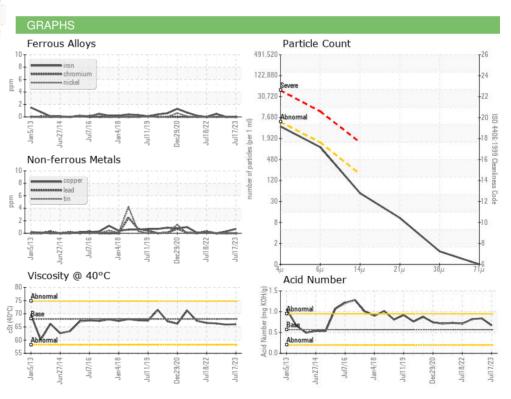
		an 2013 Jun.	2014 Jul2016 Jan201	8 Jul2019 Dec2020 Jul2	022 Jul202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0605540	WC0605547	WC0562458
Sample Date		Client Info		17 Jul 2023	23 Jun 2023	27 Dec 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	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	1	<1	<1
Calcium	ppm	ASTM D5185m	200	2	2	2
Phosphorus	ppm	ASTM D5185m	300	285	216	214
Zinc	ppm	ASTM D5185m	370	66	<b>△</b> 3	6
Sulfur	ppm	ASTM D5185m	2500	2267	2297	2302
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	2	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3735	<b>▲</b> 10293	<u>▲</u> 15191
Particles >6µm		ASTM D7647	>1300	953	▲ 2997	<u></u> 4565
Particles >14μm		ASTM D7647	>160	46	<u>▲</u> 185	<b>▲</b> 183
Particles >21µm		ASTM D7647	>40	9	36	32
Particles >38μm		ASTM D7647	>10	1	1	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/17/13	<u>\( 21/19/15</u>	<u>△</u> 21/19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.67	0.84	0.82



## **OIL ANALYSIS REPORT**











Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : IND 2

: WC0605540 : 05901250 : 10562606

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 18 Jul 2023 Diagnostician

: 19 Jul 2023 : Wes Davis

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

2019 NORTH OAK PARK CHICAGO, IL US 60707

Contact: TONY FIORE tony.fiore@effem.com T: (773)745-2279

F: