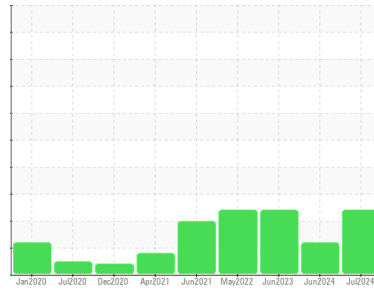




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area

### Formulation-FHG

Machine Id

### Sew Euro Drive FHG56DB01 Standardization Tank, Agitator

Component

### Gearbox

Fluid

### JAX MAGNA-PLATE 460 FG (7 GAL)

#### DIAGNOSIS

##### Recommendation

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

##### Wear

All component wear rates are normal.

##### Contamination

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

##### Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

#### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0962801</b>	WC0933681	WC0808230
Sample Date	Client Info		<b>16 Jul 2024</b>	26 Jun 2024	22 Jun 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

#### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>70</b>	20	19
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >15	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	1	0
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >200	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

#### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>1</b>	<1	2
Calcium	ppm	ASTM D5185m	<b>0</b>	4	8
Phosphorus	ppm	ASTM D5185m	<b>655</b>	657	554
Zinc	ppm	ASTM D5185m	<b>8</b>	4	6
Sulfur	ppm	ASTM D5185m	<b>584</b>	692	510

#### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>5</b>	6	7
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	1
Water	%	ASTM D6304 >0.2	<b>0.030</b>	0.003	0.011
ppm Water	ppm	ASTM D6304 >2000	<b>301</b>	35	111.6

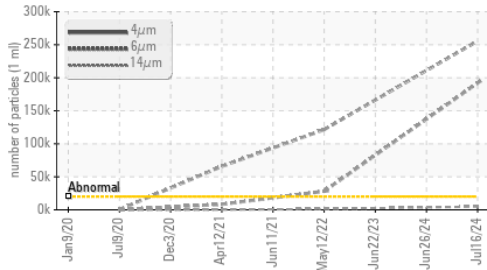
#### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 255605</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>▲ 192167</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>▲ 4883</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>▲ 174</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 25/25/19</b>	---	---

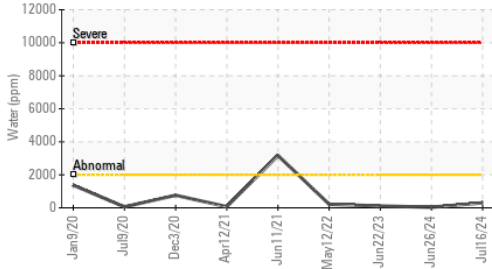
#### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.71</b>	0.69	0.73

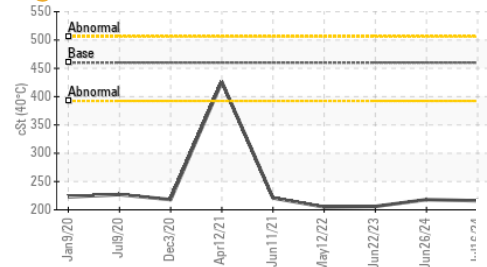
### Particle Trend



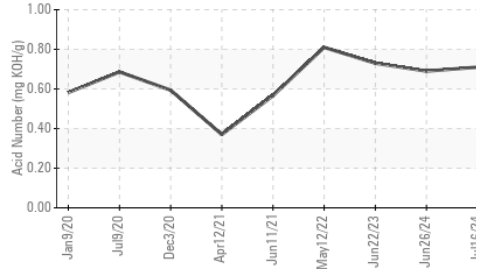
### Water (KF)



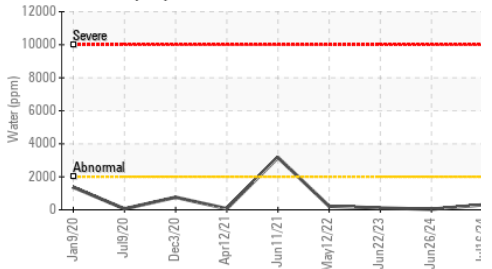
### Viscosity @ 40°C



### Acid Number



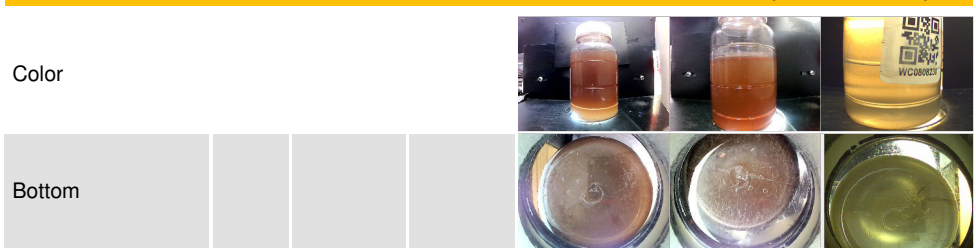
### Water (KF)



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	▲ MODER
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

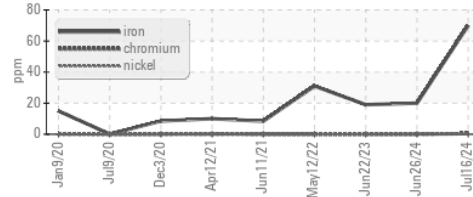
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 460	● 216	● 218	● 206

### SAMPLE IMAGES

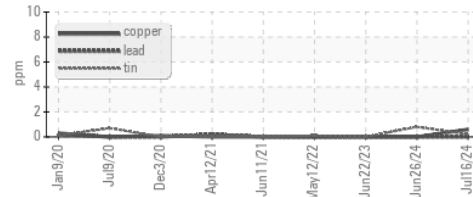


### GRAPHS

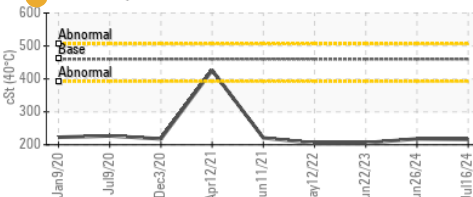
#### Ferrous Alloys



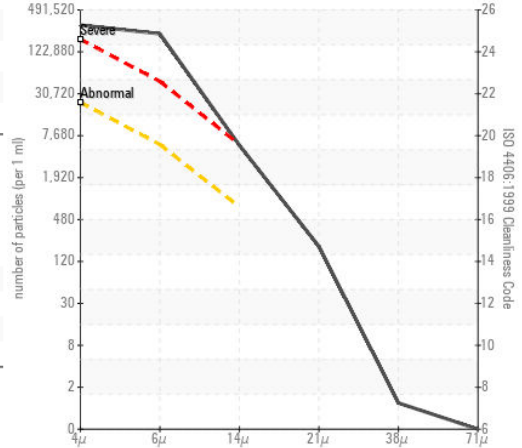
#### Non-ferrous Metals



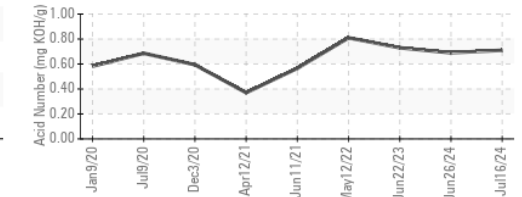
#### Viscosity @ 40°C



#### Particle Count



#### Acid Number



Certificate L2367

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

Sample No. : WC0962801

Lab Number : 06240357

Unique Number : 11129191

Test Package : IND 2 ( Additional Tests: KF, PrtCount )

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)

Received : 18 Jul 2024

Tested : 19 Jul 2024

Diagnosed : 19 Jul 2024 - Doug Bogart

NOVOZYMES

P.O. BOX 576, 77 PERRY CHAPEL CHURCH ROAD

FRANKLINTON, NC

US 27525

Contact: BRUCE THOMAS

brct@novozymes.com

T: (919)494-3146

F: (919)494-3456