

# **OIL ANALYSIS REPORT**

# Crown Metal - C02400 A2406092

Hydraulic System

REC HYD 220 ZNT (--- GAL)

# Sample Rating Trend NORMAL

### Recommendation

We certify that this oil is clean, that the additives are at acceptable levels, and that it is suitable for use.

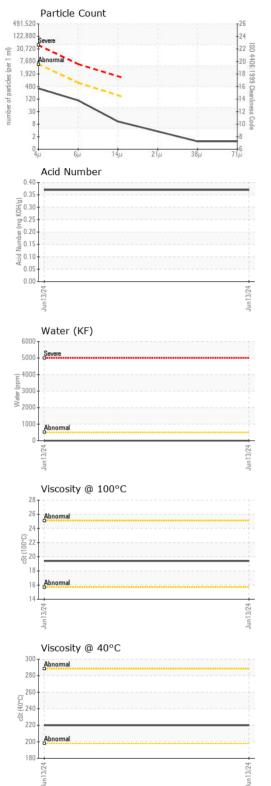
				Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Batch #		Client Info		2024 06 0260		
Department		Client Info		Production		
Sample From		Client Info		Machine		
Production Stage		Client Info		Final		
Sent to WC		Client Info		06/13/2024		
Sample Number		Client Info		E30002388		
Sample Date		Client Info		13 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>20	2		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	16		
_ead	ppm	ASTM D5185(m)	>20	1		
Copper	ppm	ASTM D5185(m)	>20	4		
Γin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		21		
Calcium	ppm	ASTM D5185(m)		25		
Phosphorus	ppm	ASTM D5185(m)		202		
Zinc	ppm	ASTM D5185(m)		166		
Sulfur	ppm	ASTM D5185(m)		1076		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	6		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Nater	%	ASTM D6304*	>0.05	0.00		
\A/-4		A OTA A DOOC 15	F00	•		

ppm Water

ppm ASTM D6304\* >500



## **OIL ANALYSIS REPORT**



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	342		
Particles >6µm		ASTM D7647	>640	92		
Particles >14μm		ASTM D7647	>160	9		
Particles >21μm		ASTM D7647	>40	3		
Particles >38μm		ASTM D7647	>10	1		
Particles >71μm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	16/14/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.37		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
<b>Emulsified Water</b>	scalar	Visual*	>0.05	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		220		
Visc @ 100°C	cSt	ASTM D7279(m)		19.4		
Viscosity Index (VI)	Scale	ASTM D2270*		99		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

: 17 Jun 2024

: 19 Jun 2024

: 19 Jun 2024 - Tatiana Sorkina



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02642337

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : E30002388

Received **Tested** Unique Number : 5799876 Diagnosed

Test Package : IND 2 (Additional Tests: KF, KV100, VI) To discuss this sample report, contact Customer Service at 1-905-372-2251.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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