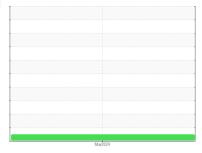


## **OIL ANALYSIS REPORT**

### Sample Rating Trend

SAMPLE INFORMATION method limit/base







Area **Chem-Ecol** Machine Id **A2403149** Component Hydraulic System

Fluid

CHEM-ECOL BIO HYDRAULIC 32ZFD (--- GAL)

### DIAGNOSIS

#### Recommendation

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

SAMPLE INFORM		method	iinii/base	current	nistory i	riistory2
Batch #		Client Info		3041-A		
Department		Client Info		Production		
Sample From		Client Info		Machine		
Production Stage		Client Info		Final		
Sent to WC		Client Info		03/21/2024		
Sample Number		Client Info		E30001736		
Sample Date		Client Info		21 Mar 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
Iron	ppm	ASTM D5185(m)	>20	0		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	0		
Lead	ppm	ASTM D5185(m)	>20	0		
Copper	ppm	ASTM D5185(m)	>20	0		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	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)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		2		
Calcium	ppm	ASTM D5185(m)		222		
Phosphorus	ppm	ASTM D5185(m)		158		
Zinc	ppm	ASTM D5185(m)		4		
Sulfur	ppm	ASTM D5185(m)		893		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.05	0.004		
ppm Water	ppm	ASTM D6304*	>500	44		

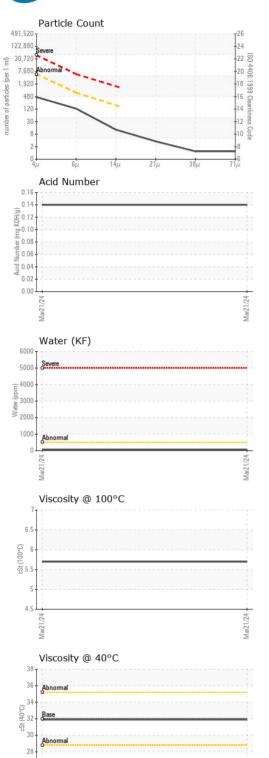


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Vlar71

# **OIL ANALYSIS REPORT**



	т26	FLUID CLEANLIN	IESS	method				history2
	-24	Particles >4µm		ASTM D7647	>5000	397		
	-22 [S0 4406:1999 Cleanlin -18 999 Cleanlin -14 114 -112 st	Particles >6µm		ASTM D7647	>640	112		
	18 20	Particles >14µm		ASTM D7647		11		
	-16 C	Particles >21µm		ASTM D7647	>40	3		
	-14 anii	Particles >38µm		ASTM D7647	>10	1		
	-12 % -10 &	Particles >71µm		ASTM D7647	>3	1		
	-8	Oil Cleanliness		ISO 4406 (c)	>19/16/14	16/14/11		
21µ	38µ 71µ	FLUID DEGRADA		method	limit/base	ourropt	history1	history2
Steed 2.4 Le	Socialisti (Svalisti)				iimii/base	current	riistory i	riistoryz
		Acid Number (AN)	mg KOH/g			0.14		
		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		
	/24 -	Debris	scalar	Visual*	NONE	NONE		
	Mar21/24	Sand/Dirt	scalar	Visual*	NONE	NONE		
		Appearance	scalar	Visual*	NORML	NORML		
		Odor	scalar	Visual*	NORML	NORML		
		Emulsified Water	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)	32	31.9		
		Visc @ 100°C	cSt	ASTM D7279(m)		5.7		
	24	Viscosity Index (VI)	Scale	ASTM D2270*		119		
	Mar21/24	SAMPLE IMAGES	5	method	limit/base	current	history1	history2
		Color					no image	no image
		0000					no image	no image
		Bottom					no image	no image
	#21/24							
	Mar21/24							
	Mat21/24 +							
	Mai21/24 +							
	Mar21/24							
	Mar21/24 -							
	Mar21/24							
	Mar21/24							
	Ma21/24							
	29							
	29							
	Mar21/24 -		· A			5110		<b>C</b> olution 111
CALA	+PZ112mpW Laboratory	: WearCheck - C8-1175			-	- 5H9 <b>Envi</b> r	onmental 360	
	Laboratory Sample No.	: E30001736	Recei	ived : 25	5 Mar 2024	. 5H9 <b>Envi</b> r		Victoria Stree
CALA LANGE UNIT	+PZ112mpW Laboratory	: E30001736 : <mark>02624262</mark>	Recei Teste	ived : 25 ed : 26	-			

Validity of results and interpretation are based on the sample and information as supplied.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Report Id: CHECOB [WCAMIS] 02624262 (Generated: 03/27/2024 14:48:33) Rev: 1

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