

## **OIL ANALYSIS REPORT**

## Sample Rating Trend

WEAR



Component Hydraulic System Fluid CHEM-ECOL GREENLUBE 46 (--- GAL)

## DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

🔺 Wear

Copper and iron ppm levels are noted.

Contamination {not applicable}

Fluid Condition

Visc @ 40°C is notably high.

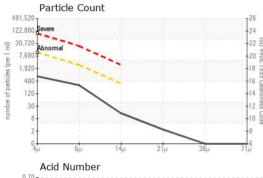
				Jan2024		
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Batch #		Client Info		2970-A		
Department		Client Info		Production		
Sample From		Client Info		Machine		
Production Stage		Client Info		Final		
Sent to WC		Client Info		01/09/2024		
Sample Number		Client Info		E30001134		
Sample Date		Client Info		09 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>1</b> 9		
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	1		
Lead	ppm	ASTM D5185(m)	>20	1		
Copper	ppm	ASTM D5185(m)	>20	13		
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)		0		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		57		
Calcium	ppm	ASTM D5185(m)		57		
Phosphorus	ppm	ASTM D5185(m)		444		
Zinc	ppm	ASTM D5185(m)		480		
Sulfur	ppm	ASTM D5185(m)		1412		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185(m)	>15	1		
Sodium	ppm ppm	ASTM D5185(m)	210	، <1		
Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>20	<1 <1		
Water	%	ASTM D5185(III) ASTM D6304*	>0.05	< 1 0.002		
ppm Water		ASTM D6304 ASTM D6304*	>500	18		
ppin waler	ppm	70 HVI 10004	×000	10		

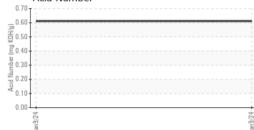


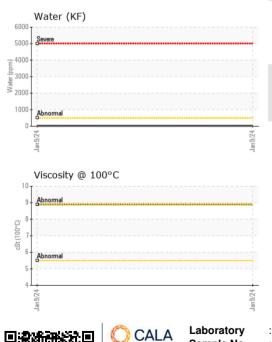
## **OIL ANALYSIS REPORT**

🔺 Ferrous Alloys









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	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	720		
Particles >6µm		ASTM D7647	>2500	266		
Particles >14µm		ASTM D7647	>320	12		
Particles >21µm		ASTM D7647	>80	2		
Particles >38µm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.61		
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		
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)	46	64.6		
Visc @ 100°C	cSt	ASTM D7279(m)		8.9		
Viscosity Index (VI)	Scale	ASTM D2270*		112		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Environmental 360 Solutions Ltd. Sample No. : E30001134 Recieved : 10 Jan 2024 640 Victoria Street Lab Number : 02607833 Diagnosed : 15 Jan 2024 Cobourg, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5708919 Diagnostician : Tatiana Sorkina CA K9A 5H5 Test Package : IND 2 (Additional Tests: KF, KV100, VI) Contact: Tatiana Sorkina To discuss this sample report, contact Customer Service at 1-905-372-2251. tsorkina@e360s.ca T: (800)263-3939 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. F: (905)373-4950