

OIL ANALYSIS REPORT

Nominal Machine Tool - 888096

RB030

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- GAL)

Sample Rating Trend **VISCOSITY**

DIAGNOSIS

Recommendation

The sample submitted is 2 times dirtier than the ISO dirt count recommendation of 19/16/14. Viscosity at 40 °C is out of spec (32 \pm 3 cSt).

Contamination

Particles >4µm are notably high. Particles >6µm and oil cleanliness are notably high.

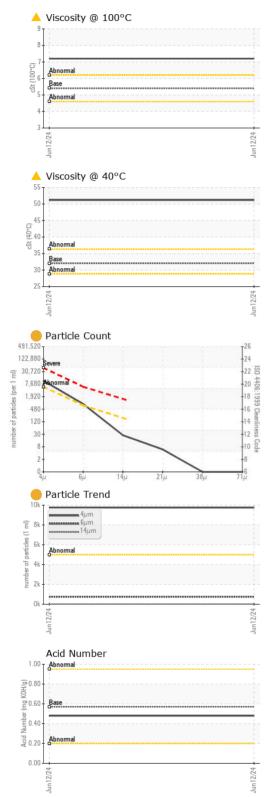
Fluid Condition

Visc @ 100°C is abnormally high. Visc @ 40°C is abnormally high.

				Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Department		Client Info		Sales		
Sample From		Client Info		Tote		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		06/17/2024		
Sample Number		Client Info		E30002424		
Sample Date		Client Info		12 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	3		
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)		<1		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>20	<1		
Copper	ppm	ASTM D5185(m)	>20	9		
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)		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<1		
Barium	ppm	ASTM D5185(m)	5	9		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	25	<1		
Calcium	ppm	ASTM D5185(m)	200	57		
Phosphorus	ppm	ASTM D5185(m)	300	423		
Zinc	ppm	ASTM D5185(m)	370	477		
Sulfur	ppm	ASTM D5185(m)	2500	2391		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	2		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	2		
Water	%	ASTM D6304*	>0.05	0.001		
ppm Water	ppm	ASTM D6304*	>500	8		



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FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	9752		
Particles >6µm		ASTM D7647	>640	754		
Particles >14µm		ASTM D7647	>160	24		
Particles >21µm		ASTM D7647	>40	5		
Particles >38μm		ASTM D7647	>10	0		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	20/17/12		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.48		
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)	32	<u>▲</u> 51.2		
Visc @ 100°C	cSt	ASTM D7279(m)	5.4	^ 7.2		
Viscosity Index (VI)	Scale	ASTM D2270*	102	98		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom				(6)	no image	no image



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: E30002424 Lab Number : 02642938

Unique Number : 5800477

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

Received : 19 Jun 2024 **Tested** : 20 Jun 2024 Diagnosed : 20 Jun 2024 - Tatiana Sorkina

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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