

### **OIL ANALYSIS REPORT**

## Metelix - M10200 **AG299**

Hydraulic System

**AW HYDRAULIC OIL ISO 46 (--- GAL)** 

# Sample Rating Trend VISCOSITY

#### **DIAGNOSIS**

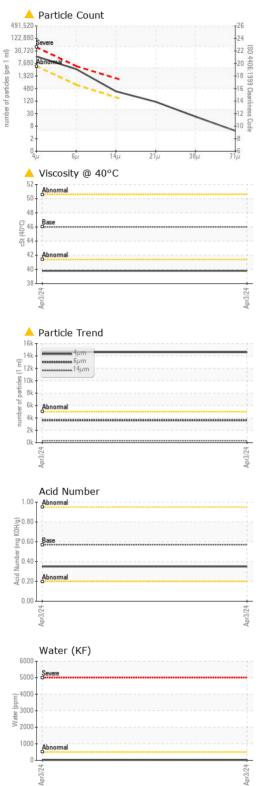
#### Recommendation

The sample submitted is 8 times dirtier than the ISO dirt count recommendation of 19/16/14. Viscosity at 40 °C is out of spec (46  $\pm$  5 cSt).

		1		Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine ID		Client Info		Trimmer 7/Cell		
Department		Client Info		Sales		
Sample From		Client Info		Machine		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		04/15/2024		
Sample Number		Client Info		E30001861		
Sample Date		Client Info		03 Apr 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	<1		
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	3		
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)	5	0		
Barium	ppm	ASTM D5185(m)	5	<1		
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	45		
Phosphorus	ppm	ASTM D5185(m)	300	331		
Zinc	ppm	ASTM D5185(m)	370	407		
Sulfur	ppm	ASTM D5185(m)	2500	2610		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*	>0.05	0.002		
ppm Water	ppm	ASTM D6304*	>500	17		



#### **OIL ANALYSIS REPORT**



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>14590</b>		
Particles >6µm		ASTM D7647	>640	<b>△</b> 3606		
Particles >14µm		ASTM D7647	>160	<b>311</b>		
Particles >21µm		ASTM D7647	>40	<u>^</u> 98		
Particles >38µm		ASTM D7647	>10	<b>19</b>		
Particles >71µm		ASTM D7647	>3	4		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	<u>^</u> 21/19/15		
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.35		
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	VLITE		
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	<b>4</b> 39.8		
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	6.3		
Viscosity Index (VI)	Scale	ASTM D2270*	97	105		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image





Laboratory Sample No.

Lab Number : 02629604 Unique Number : 5762736

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : E30001861 Received

**Tested** Diagnosed

: 17 Apr 2024

: 18 Apr 2024

: 22 Apr 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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