

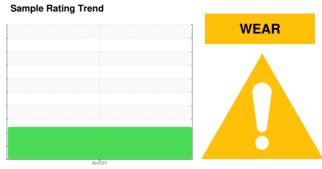
OIL ANALYSIS REPORT

Metelix - M10200

AG292

Hydraulic System

AW HYDRAULIC OIL ISO 46 (--- GAL)



DIAGNOSIS

Recommendation

The sample submitted is 4 times dirtier than the ISO dirt count recommendation of 19/16/14.

Copper ppm levels are noted.

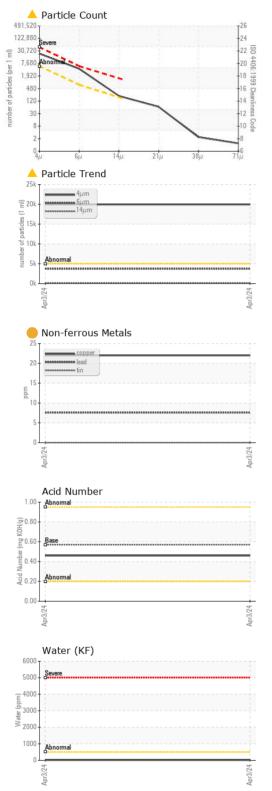
Contamination

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

				Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine ID		Client Info		Press 12		
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		E30001854		
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	4		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	0		
Titanium	ppm	ASTM D5185(m)	720	0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>20	8		
Copper	ppm	ASTM D5185(m)	>20	<u>22</u>		
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	<1		
Barium	ppm	ASTM D5185(m)	5	0		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	25	28		
Calcium	ppm	ASTM D5185(m)	200	60		
Phosphorus	ppm	ASTM D5185(m)	300	376		
Zinc	ppm	ASTM D5185(m)	370	405		
Sulfur	ppm	ASTM D5185(m)	2500	948		
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)		1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*	>0.05	0.001		
ppm Water	ppm	ASTM D6304*	>500	14		



OIL ANALYSIS REPORT



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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14μm		ASTM D7647	>160	<u> </u>		
Particles >21μm		ASTM D7647	>40	56		
Particles >38μm		ASTM D7647	>10	2		
Particles >71μm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	<u> </u>		
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.46		
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	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.7		
Visc @ 100°C	cSt	ASTM D7279(m)	6.7	7.1		
Viscosity Index (VI)	Scale	ASTM D2270*	97	114		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				10.3	no image	no image
Bottom					no image	no image



CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number : 02629619 Unique Number : 5762751

: E30001854

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 17 Apr 2024

Tested : 18 Apr 2024 Diagnosed : 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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