

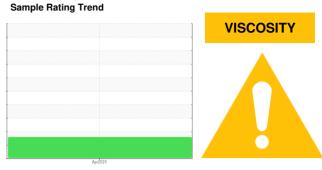
OIL ANALYSIS REPORT

Metelix - M10200

AG294

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. Viscosity at 40 °C is out of spec (46 \pm 5 cSt).

Contamination

Particles >6µm and oil cleanliness are notably high.

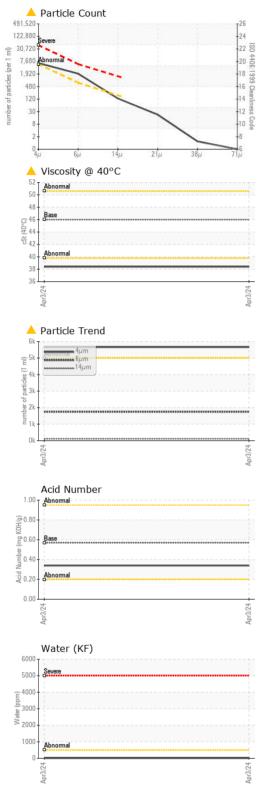
Fluid Condition

Visc @ 40°C is abnormally low.

				Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine ID		Client Info		Trimmer 2		
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		E30001856		
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	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	2		
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)		0		
Magnesium	ppm	ASTM D5185(m)	25	<1		
Calcium	ppm	ASTM D5185(m)	200	48		
Phosphorus	ppm	ASTM D5185(m)	300	338		
Zinc	ppm	ASTM D5185(m)	370	409		
Sulfur	ppm	ASTM D5185(m)	2500	804		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*	>0.05	0.001		
ppm Water	ppm	ASTM D6304*	>500	9		



OIL ANALYSIS REPORT



ESS	method	limit/base	current	history1	history2
	ASTM D7647	>5000	5664		
	ASTM D7647	>640	<u> </u>		
	ASTM D7647	>160	113		
	ASTM D7647	>40	19		
	ASTM D7647	>10	1		
	ASTM D7647	>3	0		
	ISO 4406 (c)	>19/16/14	<u>20/18/14</u>		
TION	method	limit/base	current	history1	history2
mg KOH/g	ASTM D974*	0.57	0.34		
	method	limit/base	current	history1	history2
scalar	Visual*	NONE	NONE		
scalar	Visual*	NONE	NONE		
scalar	Visual*	NONE	NONE		
scalar	Visual*	NONE	NONE		
scalar	Visual*	NONE	VLITE		
scalar	Visual*	NONE	NONE		
scalar	Visual*	NORML	NORML		
scalar	Visual*	NORML	NORML		
scalar	Visual*	>0.05	NEG		
scalar	Visual*		NEG		
IES	method	limit/base	current	history1	history2
cSt	ASTM D7279(m)	46	△ 38.4		
cSt	ASTM D7279(m)	6.7	6.3		
Scale	ASTM D2270*	97	112		
;	method	limit/base	current	history1	history2
			0003	no image	no image
				no image	no image
	TION mg KOHig scalar	ASTM D7647 ISO 4406 (c) TION method mg KOH/g ASTM D974* method scalar Visual* scalar ASTM D7279(m) CSt ASTM D7279(m) Scale ASTM D2270*	ASTM D7647 >5000 ASTM D7647 >640 ASTM D7647 >160 ASTM D7647 >10 ASTM D7647 >10 ASTM D7647 >3 ISO 4406 (c) >19/16/14 TION method limit/base mg KOH/g ASTM D974* 0.57 method limit/base scalar Visual* NONE scalar Visual* NORML scalar Visual* NORML	ASTM D7647 >5000	ASTM D7647 >5000





Laboratory

Sample No. Lab Number : 02629622 Unique Number : 5762754

: E30001856

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

Received **Tested**

: 17 Apr 2024 : 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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