

Machine Id ENGEL IMM2000-3 Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (1600 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.



All component wear rates are normal.

CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Τe	est	UOM	Method	Limit/Abn	Current	History1	History2
Sa	ample Number		Client Info		ST43377		
Sa	ample Date		Client Info		28 Mar 2024		
M	achine Age	hrs	Client Info		0		
0	il Age	hrs	Client Info		0		
Fi	Iter Age	hrs	Client Info		0		
O	il Changed		Client Info		N/A		
Fi	Iter Changed		Client Info		N/A		
	ample Status				NORMAL		
	· · · · · · · · · · · · · · · · · · ·						
Irc	on	ppm	ASTM D5185(m)	>20	<1		
CI	hromium	ppm	ASTM D5185(m)	>20	0		
Ni	ickel	ppm	ASTM D5185(m)	>20	0		
Ti	tanium	ppm	ASTM D5185(m)		0		
Si	lver	ppm	ASTM D5185(m)		0		
AI	uminum	ppm	ASTM D5185(m)	>20	0		
Le	ead	ppm	ASTM D5185(m)	>20	0		
C	opper	ppm	ASTM D5185(m)	>20	2		
Ti	n	ppm	ASTM D5185(m)	>20	0		
Va	anadium	ppm	ASTM D5185(m)		0		
W	hite Metal	scalar	Visual*	NONE	NONE		
Ye	ellow Metal	scalar	Visual*	NONE	NONE		
-	licon	ppm	ASTM D5185(m)	>15	8		
	otassium	ppm	ASTM D5185(m)	>20	0		
	ater	%	ASTM D6304*	>0.05	0.001		
	om Water	ppm	ASTM D6304*	>500	6		
	articles >4µm		ASTM D7647	>5000	677		
	articles >6µm		ASTM D7647	>1300	229		
	articles >14µm		ASTM D7647	>160	24		
	articles >21µm		ASTM D7647	>40	8		
	articles >38µm		ASTM D7647	>10	1		
	articles >71µm		ASTM D7647	>3	0		
-	il Cleanliness		ISO 4406 (c)	>19/17/14	17/15/12		
Si		scalar	Visual*	NONE	NONE		
	ebris	scalar	Visual*	NONE	VLITE		
	and/Dirt	scalar	Visual*	NONE	NONE		
	opearance	scalar	Visual* Visual*	NORML	NORML NORML		
-	dor	scalar	Visual*	NORML			
	nulsified Water	scalar	visual	>0.05	NEG		
S	odium	ppm	ASTM D5185(m)		0		
	oron	ppm	ASTM D5185(m)	5	1		
	arium	ppm	ASTM D5185(m)	5	<1		
	olybdenum	ppm	ASTM D5185(m)	5	0		
	anganese	ppm	ASTM D5185(m)	-	0		
	agnesium	ppm	ASTM D5185(m)	25	5		
	alcium	ppm	ASTM D5185(m)	200	63		
	hosphorus	ppm	ASTM D5185(m)	300	434		
	nc	ppm	ASTM D5185(m)	370	552		
	ulfur	ppm	ASTM D5185(m)	2500	1396		
	d Number (AN)	mg KOH/g	ASTM D974*	0.57	0.38		
	isc @ 40°C	cSt	ASTM D7279(m)	46	44.4		



