

Machine Id ENGEL IMM500-1 Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (690 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.

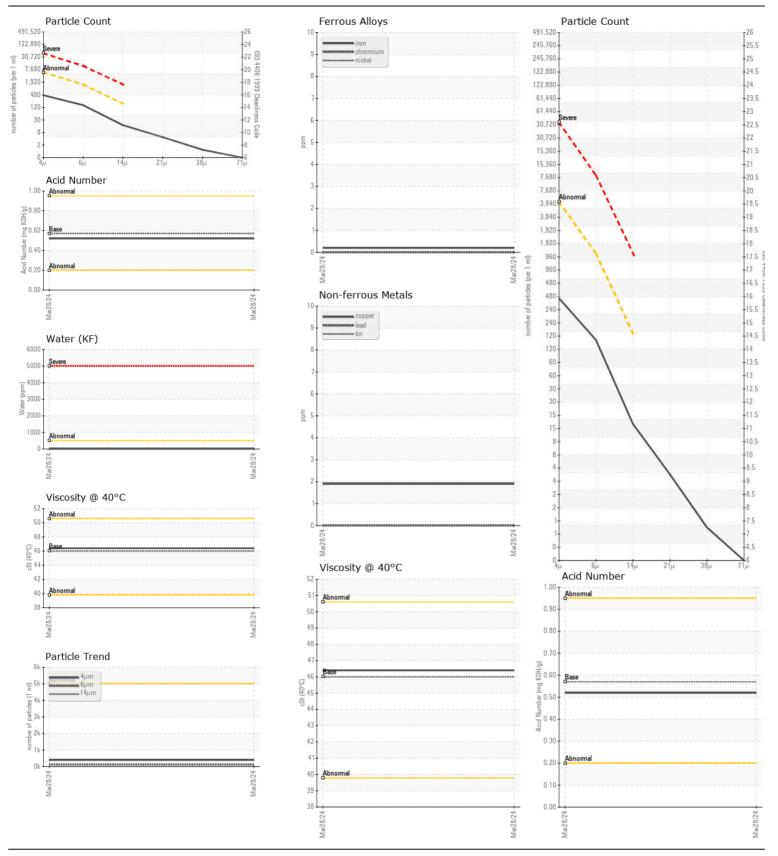
CONTAMINATION

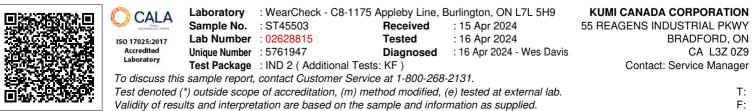
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

FLUID CONDITION

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

٦	Гest	UOM	Method	Limit/Abn	Current	History1	History2
9	Sample Number		Client Info		ST45503		
S	Sample Date		Client Info		28 Mar 2024		
ľ	Machine Age	hrs	Client Info		0		
C	Dil Age	hrs	Client Info		0		
F	Filter Age	hrs	Client Info		0		
C	Dil Changed		Client Info		N/A		
F	-ilter Changed		Client Info		N/A		
	Sample Status				NORMAL		
I	ron	ppm	ASTM D5185(m)	>20	<1		
(Chromium	ppm	ASTM D5185(m)	>20	0		
1	Nickel	ppm	ASTM D5185(m)	>20	0		
٦	Titanium	ppm	ASTM D5185(m)		0		
5	Silver	ppm	ASTM D5185(m)		0		
ŀ	Aluminum	ppm	ASTM D5185(m)	>20	0		
L	_ead	ppm	ASTM D5185(m)	>20	0		
(Copper	ppm	ASTM D5185(m)	>20	2		
٦	Гin	ppm	ASTM D5185(m)	>20	0		
1	Vanadium	ppm	ASTM D5185(m)		0		
۱	White Metal	scalar	Visual*	NONE	NONE		
`	Yellow Metal	scalar	Visual*	NONE	NONE		
	Silicon	ppm	ASTM D5185(m)	>15	0		
-	Potassium	ppm	ASTM D5185(m)	>20	<1		
	Nater	%	ASTM D6304*	>0.05	0.001		
	opm Water	ppm	ASTM D6304*	>500	12		
	Particles >4µm		ASTM D7647	>5000	402		
	Particles >6µm		ASTM D7647	>1300	135		
	Particles >14µm		ASTM D7647	>160	15		
	Particles >21µm		ASTM D7647	>40	4		
	Particles >38µm		ASTM D7647	>10	1		
	Particles >71µm		ASTM D7647	>3	0		
	Dil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11		
	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		
ç	Sodium	ppm	ASTM D5185(m)		0		
	Boron	ppm	ASTM D5185(m)	5	<1		
	Barium	ppm	ASTM D5185(m)	5	0		
	Volybdenum	ppm	ASTM D5185(m)	5	0		
	Vanganese	ppm	ASTM D5185(m)		0		
	Vagnesium	ppm	ASTM D5185(m)	25	<1		
	Calcium	ppm	ASTM D5185(m)	200	54		
	Phosphorus	ppm	ASTM D5185(m)	300	438		
	Zinc	ppm	ASTM D5185(m)	370	552		
	Sulfur	ppm	ASTM D5185(m)	2500	1524		
	Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.52		
	visc @ 40°C	cSt	ASTM D7279(m)	46	46.4		





Contact/Location: Service Manager - KUNBRA Page 2 of 2