

OIL ANALYSIS REPORT

Area FERME LAIR FOINS [19188] JCB 4220 2996641 Component Transmission (Manual)

Fluid JCB OPTIMUM TRANS. 4004/6305 (35 LTR)



Sample Rating Trend



NORMAL

Recommendation Sample Number Client Info J.6800/105 ··· ··· ··· Reample at the next service interval to moment Oil Alog 0ac 's Client Info 351 ···< ··· All component wear rates are normal. Oil Alog 0ac 's Client Info 351 ···< ··· There is no indication of any contamination in the fuld. Sample Status 's NORMAL ···< ··· ··· ··· ··· ·s ···· ··· ···	DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine AgehrsClient Info351Oil AgehrsClient Info351Oil AgedIClient InfoNot ChangeThe to indication of any contamination in the full.Sample StatusIINot ChangeIIFull ConditionThe to indication of any contamination in the full.Not ChangeIIIIFull ConditionThe third is acceptable for the the in is evide.VeC Met METALSVeC MethodPol19Vec Art METALSVec Art METALSNot SampleSampleII	Recommendation	Sample Number		Client Info		JCB004105		
All component wear rates are normal. Oil Age hrs Client Info 351 Dia Changed Client Info Not Changed There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service. method Imit/base current Heldory! <	Resample at the next service interval to monitor.	Sample Date		Client Info		31 Aug 2023		
Contamination Not Changed Not Changed	Wear	Machine Age	hrs	Client Info		351		
Sample Status NORMAL There is no indication of any contamination in the fluid. CONTAMINATION method imit/base current history1 history1 Fluid Condition The condition of the fluid is acceptable for the time in service. MC Method >0.1 NEG Water WC Method >0.1 NEG Wear WC Method >0.1 NEG Wear WC Method >0.1 NEG WEAR METALS method imit/base current history1 history2 Iron ppm ASTM DS180m >5 <1 Nickel ppm ASTM DS180m >5 <1 Aluminum ppm ASTM DS180m >25 <1 Autimony ppm ASTM DS180m >25 <1 Autimony ppm ASTM DS180m >25 27 <	All component wear rates are normal.	Oil Age	hrs	Client Info		351		
Nukl. CONTAMINATION method limit/base current history1 history1 Fuid Condition The condition of the fluid is acceptable for the time in service. Water WC Method >0.1 NEG Wear WC Method >0.1 NEG Wear Work Work Imit/base current history1 history2 Iron ppm ASTM D5185(m) >5 -1 Chromium ppm ASTM D5185(m) >5 -1 Nickel ppm ASTM D5185(m) >5 -1 Auminum ppm ASTM D5185(m) >5 -1 Auminum ppm ASTM D5185(m) >25 1 Auminum ppm ASTM D5185(m) >45 5 Copper ppm ASTM D5185(m) 0	Contamination	•		Client Info		-		
Fluid Condition method meth	There is no indication of any contamination in the							
Water WC Method >0.1 NEG Wear wear wear wear		CONTAMINATIC	N	method	limit/base	current	history1	history2
Interview Interview Interview Interview Interview Iron ppm ASTM D5186(m) >2000 19 Nickel ppm ASTM D5186(m) >55 <1 Nickel ppm ASTM D5186(m) >55 <1 Silver ppm ASTM D5186(m) >7 0 Aluminum ppm ASTM D5186(m) >25 <1 Lead ppm ASTM D5186(m) >25 S Lead ppm ASTM D5186(m) >10 <1 Antimony ppm ASTM D5186(m) >10 <1 Antimony ppm ASTM D5186(m) 0 Antimony ppm ASTM D5186(m) 0 AstM D5186(m) 0	The condition of the fluid is acceptable for the time							
Ohromium ppm ASTM D5185m >5 <1	in service.	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185(m) >5 <1		Iron	ppm	ASTM D5185(m)	>200	19		
Titanium ppm ASTM D5185(m) <		Chromium	ppm	ASTM D5185(m)	>5	<1		
Silver ppm ASTM D5185(m) >7 0 Aluminum ppm ASTM D5185(m) >25 <1		Nickel	ppm	ASTM D5185(m)	>5	<1		
Aluminum ppm ASTM D5185(m) >25 <1 Lead ppm ASTM D5185(m) >45 5 Copper ppm ASTM D5185(m) >225 27 Tin ppm ASTM D5185(m) >10 <1 Antimony ppm ASTM D5185(m) >10 <1 Vanadium pm ASTM D5185(m) 0 Vanadium pm ASTM D5185(m) 0 Cadmium pm ASTM D5185(m) 0 ADDITIVES method Imit/base current history1 history1 Molydenum pm ASTM D5185(m) 3 Maganese pm ASTM D5185(m) 2 Magnesium pm ASTM D5185(m) 1284 Magnesium pm		Titanium	ppm	ASTM D5185(m)		<1		
Lead ppm ASTM D5165(m) >4-5 5 Copper ppm ASTM D5165(m) >2225 277 Tin ppm ASTM D5185(m) >10 <1 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium pm ASTM D5185(m) 0 Boron ppm ASTM D5185(m) 3 Molybdenum ppm ASTM D5185(m) 2 Manganese ppm ASTM D5185(m) 15 Calcium ppm ASTM D5185(m) 158 Magnesium ppm ASTM D5185(m) 1284 Cinc pp		Silver	ppm	ASTM D5185(m)	>7	0		
Copper ppm ASTM D5185(m) >225 27 Tin ppm ASTM D5185(m) >10 <1 Antimony ppm ASTM D5185(m) 0 Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 15 Magnesium ppm ASTM D5185(m) 15 Magnesium ppm ASTM D5185(m) 15		Aluminum	ppm	ASTM D5185(m)	>25	<1		
Tin ppm ASTM D5185(m) >10 <1		Lead	ppm	ASTM D5185(m)	>45	5		
Antimony ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 3 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 15 Galcium ppm ASTM D5185(m) 158 Phosphorus ppm ASTM D5185(m) 1284 Sulfur ppm ASTM D5185(m) 1280 Sulfur ppm ASTM D5185(m) 4179 <td< th=""><th></th><th>Copper</th><th>ppm</th><th>ASTM D5185(m)</th><th>>225</th><th>27</th><th></th><th></th></td<>		Copper	ppm	ASTM D5185(m)	>225	27		
VanadiumppmASTM D5/85(m)0BerylliumppmASTM D5/85(m)0CadmiumppmASTM D5/85(m)<1ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5/85(m)3BariumppmASTM D5/85(m)2MolybdenumppmASTM D5/85(m)2MaganeseppmASTM D5/85(m)15MagnesiumppmASTM D5/85(m)15PhosphorusppmASTM D5/85(m)1284SulfurppmASTM D5/85(m)1280SulfurppmASTM D5/85(m)4179SulfurppmASTM D5/85(m)SiliconppmASTM D5/85(m)>1255SodiumppmASTM D5/85(m)>1255		Tin	ppm	ASTM D5185(m)	>10	<1		
Beryllium CadmiumppmASTM D5188(m)0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5188(m)3BariumppmASTM D5188(m)2MolybdenumppmASTM D5188(m)2ManganeseppmASTM D5188(m)2MagnesiumppmASTM D5188(m)15MagnesiumppmASTM D5188(m)15PhosphorusppmASTM D5188(m)1284ZincppmASTM D5188(m)1280SulfurppmASTM D5188(m)1179SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)SulfurppmASTM D5188(m)>1255 <t< th=""><th></th><th>Antimony</th><th>ppm</th><th>ASTM D5185(m)</th><th></th><th>0</th><th></th><th></th></t<>		Antimony	ppm	ASTM D5185(m)		0		
CadmiumppmASTM D5185(m)<1		Vanadium	ppm	ASTM D5185(m)		0		
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185(m)3BariumppmASTM D5185(m)2MolybdenumppmASTM D5185(m)2ManganeseppmASTM D5185(m)<1MagnesiumppmASTM D5185(m)15CalciumppmASTM D5185(m)15PhosphorusppmASTM D5185(m)1284ZincppmASTM D5185(m)1280SulfurppmASTM D5185(m)4179LithiumppmASTM D5185(m)<11SiliconppmASTM D5185(m)>1255SodiumppmASTM D5185(m)5SodiumppmASTM D5185(m)5		Beryllium	ppm	ASTM D5185(m)		0		
Boron ppm ASTM D5185(m) 3 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 2 Manganese ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) Magnesium ppm ASTM D5185(m) 15 Calcium ppm ASTM D5185(m) 1284 Phosphorus ppm ASTM D5185(m) 1280 Sulfur ppm ASTM D5185(m) 4179 Sulfur ppm ASTM D5185(m) Sulfur ppm ASTM D5185(m) Sulfur ppm ASTM D5185(m) Sulfur ppm ASTM D5185(m) Sulfur ppm ASTM D5185(m) >125 5 -		Cadmium	ppm	ASTM D5185(m)		<1		
Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 2 Manganese ppm ASTM D5185(m) <1 Magnesium ppm ASTM D5185(m) 15 Calcium ppm ASTM D5185(m) 3317 Phosphorus ppm ASTM D5185(m) 1284 Zinc ppm ASTM D5185(m) 1280 Sulfur ppm ASTM D5185(m) 4179 Lithium ppm ASTM D5185(m) Silicon ppm ASTM D5185(m) >125 5 Sodium ppm ASTM D5185(m) >125 5		ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185(m)2ManganeseppmASTM D5185(m)<		Boron	ppm	ASTM D5185(m)		3		
Manganese ppm ASTM D5185(m) <1		Barium	ppm	ASTM D5185(m)		2		
Magnesium ppm ASTM D5185(m) 15 Calcium ppm ASTM D5185(m) 3317 Phosphorus ppm ASTM D5185(m) 1284 Zinc ppm ASTM D5185(m) 1280 Sulfur ppm ASTM D5185(m) 11280 Sulfur ppm ASTM D5185(m) 4179 Lithium ppm ASTM D5185(m) <<1 Silicon ppm ASTM D5185(m) >125 5 Sodium ppm ASTM D5185(m) >125 5		Molybdenum	ppm	ASTM D5185(m)		2		
Calcium ppm ASTM D5185(m) 3317 Phosphorus ppm ASTM D5185(m) 1284 Zinc ppm ASTM D5185(m) 1280 Sulfur ppm ASTM D5185(m) 4179 Sulfur ppm ASTM D5185(m) 4179 Lithium ppm ASTM D5185(m) CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >125 5 Sodium ppm ASTM D5185(m) >125 5		Manganese	ppm	ASTM D5185(m)		<1		
Phosphorus ppm ASTM D5185(m) 1284 Zinc ppm ASTM D5185(m) 1280 Sulfur ppm ASTM D5185(m) 4179 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >125 5 Sodium ppm ASTM D5185(m) 5		Magnesium	ppm	ASTM D5185(m)		15		
Zinc ppm ASTM D5185(m) 1280 Sulfur ppm ASTM D5185(m) 4179 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >125 5 Sodium ppm ASTM D5185(m) >125 5		Calcium	ppm	ASTM D5185(m)		3317		
Sulfur ppm ASTM D5185(m) 4179 Lithium ppm ASTM D5185(m) <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >125 5 Sodium ppm ASTM D5185(m) 5		Phosphorus	ppm	ASTM D5185(m)		1284		
LithiumppmASTM D5185(m)<1		Zinc	ppm	ASTM D5185(m)		1280		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>1255SodiumppmASTM D5185(m)5		Sulfur	ppm	ASTM D5185(m)		4179		
Silicon ppm ASTM D5185(m) >125 5 Sodium ppm ASTM D5185(m) 5		Lithium	ppm	ASTM D5185(m)		<1		
Sodium ppm ASTM D5185(m) 5		CONTAMINANT	S	method	limit/base	current	history1	history2
Sodium ppm ASTM D5185(m) 5		Silicon	ppm	ASTM D5185(m)	>125	5		
				()				
					>20			



OIL ANALYSIS REPORT

130- 120-	Viscosity (Abnormal	_	 			 		
110.	Abnormal				_	 	 	
-001 -06 (40°C)								
ぢ 80.	• •							
70 · 60 ·			 					
50-	23		 	 		 	 	5
	Aug31/23							

	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		
Aug31/23	Appearance	scalar	Visual*	NORML	NORML		
Aug	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.1	NEG		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)		59.4		
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
	Color					no image	no image
	Bottom					no image	no image
	GRAPHS		·				
	Iron (ppm)				Lead (ppm)		
	400 Severe			100	0		
	E 200 - Abnormal			튭 50	Abnormal		
	0) L <u></u>		
	Aug31/23			Aug31/23	Aug31/23		
				Au			
	Aluminum (ppm)			15	Chromium (pp	om)	
	Severe				Severe		
	Abnormal			E ¹⁰	Abnormal		
				33			
	Aug31/23			Aug31/23 -	Aug31/23		
				Aı			
	Copper (ppm)			300	Silicon (ppm)		
ļ	400 - Severe Abnormal			E 200			
	200 - Abnormal			100	,		
	53 + 0			23			
				Aug31/23	Aug31/23		
	ug31/			4	Additives		
	Viscosity @ 40°C						
	Viscosity @ 40°C			4000			
10001	Viscosity @ 40°C				n	3	
100017 10-	Viscosity @ 40°C			E 3000) - calcium phosphorus) - zinc	3	
1.000.007 40-	Viscosity @ 40°C) - calcium phosphorus) - zinc	5	

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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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CALA

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