KOMATSU

OIL ANALYSIS REPORT

Sample Rating Trend



122002 Component Tank Return Hydraulic System Fluid CONOCO MEGAFLOW AW 32 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

Area Drills Machine Id

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KOH0000017		
Sample Date		Client Info		06 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		3		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	3		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	0	0		
Calcium	ppm	ASTM D5185m	80	59		
Phosphorus	ppm	ASTM D5185m	365	363		
Zinc	ppm	ASTM D5185m	500	461		
Sulfur	ppm	ASTM D5185m	1000	1042		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>160	A 321		
Particles >21µm		ASTM D7647	>40	<mark>/</mark> 81		
Particles >38µm		ASTM D7647	>10	4		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/19/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

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VISUAL		method	limit/base	current	history1	nistor
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	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emuisified w	ater scalar	"VISUAI	>0.1	NEG		
Free Waler	Scalar	visuai		NEG		
FLUID PRO	OPERTIES	method	limit/base	current	history1	histor
Visc @ 40°C	cSt	ASTM D445	31.0	32.2		
SAMPLE IN	MAGES	method	limit/base	current	history1	histor
Color					no image	no imag
Bottom					no image	no imag
GRAPHS						
Ferrous Allo	oys			Particle Count		
10 iron	1		491,52	ľ		
- 6	ium		122,880	0-		
d 4			30.72	Severe		
2-						
0			7,681 12	Abnormal		
May6/			/9/er] 1,920			
- Non-ferrou	s Motals		sajot 480			
¹⁰ T			of bai			
8 - copper	r			D-		
E 6			31	D-		
2				8-		
0						/
ay6/24			ay6/24	2-		/
M			ž	0 4u 6u	14µ 21µ	384
Viscosity @	40°C			Acid Number	- In Cili	o op
36 Abnormal			(B)	D Rase		
ç 34-			 ຊຶກຊ			
€ 32 Base			는 0.30 문 0.20	D		
28 Abnormal			D.10	0		
26						
/lay6/2			/lay6/2	/lay6//		
2			2	2		
: WearCheck US : KOH0000017 r : 06177086 er : 11023139	SA - 501 Madiso Rece Teste Diagr	on Ave., Cary ived : 13 ed : 14 nosed : 14	r, NC 27513 3 May 2024 4 May 2024 9 May 2024 - W	2 Ves Davis	KOMATSU 401 E GREENF MI L	HYDRAU IELD AVE LWAUKE IS 53204

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate L2367

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