

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 48936391 (S/N 116) Component Hydraulic System

Fluid DTE 10 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable.

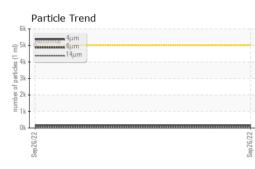
Fluid Condition

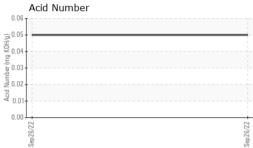
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

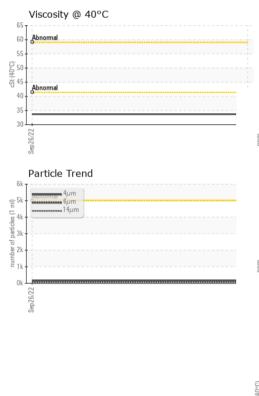
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0731042		
Sample Date		Client Info		26 Sep 2022		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>20	2		
Copper	ppm	ASTM D5185m	>20	2		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		114		
Phosphorus	ppm	ASTM D5185m		435		
Zinc	ppm	ASTM D5185m		10		
Sulfur	ppm	ASTM D5185m		1679		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	154		
Particles >6µm		ASTM D7647	>1300	46		
Particles >14µm		ASTM D7647	>160	4		
Particles >21µm		ASTM D7647	>40	1		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/9		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.05		



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							history2
	VISUAL		method	limit/base	current	history1	riistoryz
	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		
Sep26/22	Appearance	scalar	*Visual	NORML	NORML		
Sept	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		33.7		
	SAMPLE IMAGE	ES	method	limit/base	current	history1	history2
Sep26/22	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
					B 11 1 6 1		
	Ferrous Alloys			404 500	Particle Count		
	Ferrous Alloys			491,520	Particle Count		ľ
	10 8 iron chromium			491,520	Particle Count		
	8			122,880	Particle Count		-2
	10 8 iron chromium				Particle Count		-2
	10 8 6 4			122,880 30,720 7,680	Particle Count Severe		-2 -2
	10 8 6 4 2 0			122,880 30,720 7,680	Severe		-2 -2
	10 8 6 4 2 			122,880 30,720 7,680	Severe	•	-2 -2
	Non-ferrous Meta	als		122,880 30,720 7,680	Severe	•	+2 +2
	Non-ferrous Meta	als		122,880 30,720 7,680	Severe		-2 -2
	Non-ferrous Meta	als		122,880 30,720 7,680	Severe		+2 +2 +1 1 1
	Non-ferrous Meta	als		122,880 30,720 7,680 (E E 27/97 dby stoppe 480 5	Severe		+2 +2 +1 1 1
	Non-ferrous Meta	als		122,880- 30,720- 7,680 7,680 7,680 1,920- 80 1,920- 80 1,920- 80 1,920-	Severe		+2 +2 +1 +1 +1 +1
	Non-ferrous Meta	als		122,880- 30,720- 7,680 7,680 7,680 1,920- 80 1,920- 80 1,920- 80 1,920-	Severe		+2 +2 +1 +1 +1 +1
	Non-ferrous Meta	als		122,880- 30,720 7,680 1,920- 90 90 90 90 90 90 90 90 90 90 90 90 90	Severe		+2 +2 +1 +1 +1 +1
	Non-ferrous Meta	als		122,880 30,720 7,680 200 200 200 200 200 200 200 200 200 2	Severe		+2 +2 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1
	Non-ferrous Meta			122,880 30,720 7,680 7,680 7,680 10 7,090 10 7,080 10 7,090 10 7,080 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,080 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,090 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 7,000 10 10 10 10 10 10 10 10 10 10 10 10	Severe Abnormal	14μ 21μ	+2 +2 +2 +1 +1 +1 +1 +1 +1 +1
	Non-ferrous Meta			122,880- 30,720- 7,680 7,680 7,680 1920 6297,065 1200 6297,065 1200 1200 1200 300- 300- 20097,065 1200 1200 1200 1200 1200 1200 1200 120	Severe	14μ 21μ	+2 +2 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1
	Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta			122,880- 30,720- 7,680 7,680 7,680 1920 6297,065 1200 6297,065 1200 1200 1200 300- 300- 20097,065 1200 1200 1200 1200 1200 1200 1200 120	Severe Abnormal	14μ 21μ	+2 +2 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1
	Non-ferrous Meta			122,880- 30,720- 7,680 7,680 7,680 1920 6297,065 1200 6297,065 1200 1200 1200 300- 300- 20097,065 1200 1200 1200 1200 1200 1200 1200 120	Severe Abnormal	14μ 21μ	-2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
	Non-ferrous Meta			122,880- 30,720- 7,680 7,680 7,680 1920 6297,065 1200 6297,065 1200 1200 1200 300- 300- 20097,065 1200 1200 1200 1200 1200 1200 1200 120	Severe Abnormal	14μ 21μ	-2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
	Non-ferrous Meta Non-ferrous Meta U Viscosity @ 40°C			122,880- 30,720- 7,680 7,680 7,680 1920 480- 120- 30- 20092 des 8- 20092 des 7- 20092 des 8- 20092 des 7- 20092 des 7- 20000 10000000 10000000000000000000000	Severe Abnormal	14μ 21μ	
	Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Viscosity @ 40°C			122,880- 30,720- 7,680 (m 1 d) septed for a 1,920- ds septed for a 1,920- ds septed for a 1,920- ds septed for a 1,20- 30- 30- 22/92 des 0,4 (b/HON du) a 2,2- (b/HON du) a 2,	Severe Abnormal Gu Acid Number	14μ 21μ	-2 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
	Non-ferrous Meta Non-ferrous Meta U Viscosity @ 40°C			122,880- 30,720- 7,680 7,680 7,680 1920 480- 120- 30- 20092 des 8- 20092 des 7- 20092 des 8- 20092 des 7- 20092 des 7- 20000 10000000 10000000000000000000000	Severe Abnormal	14μ 21μ	+2 +2 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1
oratory pple No. Number ue Number t Package	Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Viscosity @ 40°C		l : 27 ed : 28	122,880 30,720 7,680 (ju + 14) 2097 des 1,1920 480 120 30 30 30 30 30 30 30 30 30 30 30 30 30	Severe Abnormal Acid Number	TE C GREE	-2 -2 -11 -11 -11 -11 -11 -11 -11 -11 -1

* - 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)

To discuss this sample report,

Certificate L2367

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