

OIL ANALYSIS REPORT

Area CMI KEELE - C13520 Machine Id AG246

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Wear

{not applicable}

Contamination

Particles >4 μ m and oil cleanliness are notably high.

The sample submitted is 4 times dirtier than the ISO dirt count recommendation of 19/16/14.

Fluid Condition

{not applicable}



Sample Rating Trend

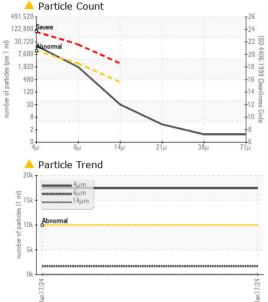


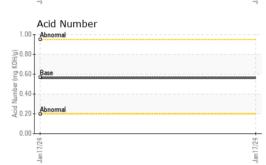
ISO

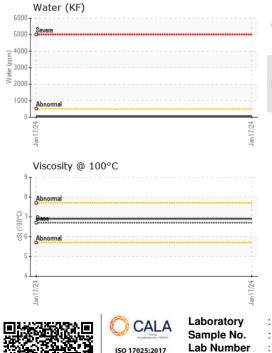
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine ID		Client Info		337 TOTE		
Department		Client Info		Sales		
Sample From		Client Info		Tote		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		01/18/2024		
Sample Number		Client Info		E30001196		
Sample Date		Client Info		17 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>20	1		
Copper	ppm	ASTM D5185(m)	>20	9		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	<1		
Barium	ppm	ASTM D5185(m)	5	0		
Molybdenum	ppm	ASTM D5185(m)	5	0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	25	114		
Calcium	ppm	ASTM D5185(m)	200	96		
Phosphorus	ppm	ASTM D5185(m)	300	444		
Zinc	ppm	ASTM D5185(m)	370	531		
Sulfur	ppm	ASTM D5185(m)	2500	1224		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.05	0.005		
ppm Water	ppm	ASTM D6304*	>500	54		



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Pa	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
	articles >4µm		ASTM D7647	>10000	17415		
-	articles >6µm		ASTM D7647	>2500	1678		
Pa	articles >14µm		ASTM D7647	>320	27		
Pa	articles >21µm		ASTM D7647	>80	3		
Pa	articles >38µm		ASTM D7647	>20	1		
Pa	articles >71µm		ASTM D7647	>4	1		
O	il Cleanliness		ISO 4406 (c)	>20/18/15	1 21/18/12		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Ac	cid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.56		
1	VISUAL		method	limit/base	current	history1	history2
W	hite Metal	scalar	Visual*	NONE	NONE		
Ye	ellow Metal	scalar	Visual*	NONE	NONE		
Pr	recipitate	scalar	Visual*	NONE	NONE		
Si	lt	scalar	Visual*	NONE	NONE		
De	ebris	scalar	Visual*	NONE	NONE		
Sa	and/Dirt	scalar	Visual*	NONE	NONE		
Ap	opearance	scalar	Visual*	NORML	NORML		
0	dor	scalar	Visual*	NORML	NORML		
	mulsified Water	scalar	Visual*	>0.05	NEG		
Fr	ee Water	scalar	Visual*		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
Vi	sc @ 40°C	cSt	ASTM D7279(m)	46	43.1		
Vi	sc @ 100°C	cSt	ASTM D7279(m)	6.7	6.9		
Vi	scosity Index (VI)	Scale	ASTM D2270*	97	117		
	SAMPLE IMAGES		method	limit/base	current	history1	history2
C	olor					no image	no image
B	ottom					no image	no image

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Environmental 360 Solutions Ltd. : E30001196 Recieved : 19 Jan 2024 640 Victoria Street Lab Number : 02609958 Diagnosed : 23 Jan 2024 Cobourg, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5711044 Diagnostician : Tatiana Sorkina CA K9A 5H5 Test Package : IND 2 (Additional Tests: KF, KV100, VI) Contact: Tatiana Sorkina To discuss this sample report, contact Customer Service at 1-905-372-2251. tsorkina@e360s.ca T: (800)263-3939 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. F: (905)373-4950

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Contact/Location: Tatiana Sorkina - CHECOB