

OIL ANALYSIS REPORT

Area KANSAS/15/EG - EXCAVATOR 20.139L [KANSAS^15^EG - EXCAVATOR] Component

Hydraulic System CAT HYDO (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

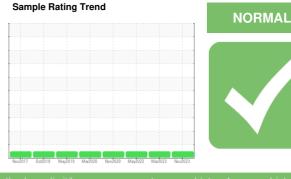
All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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



		Nov2017 0	Jct2018 May2019 Mar20	20 Nov2020 May2022 Mar202	3 Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0833936	WC0712264	WC0673455
Sample Date		Client Info		13 Nov 2023	28 Mar 2023	05 May 2022
Machine Age	hrs	Client Info		5534	5029	4533
Oil Age	hrs	Client Info		505	2257	2129
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4	6	5
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	3	2	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	4	6
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	4	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		26	32	28
Calcium	ppm	ASTM D5185m		332	387	308
Phosphorus	ppm	ASTM D5185m	1100	696	755	753
Zinc	ppm	ASTM D5185m	1210	727	883	839
Sulfur	ppm	ASTM D5185m		1636	1902	1477
CONTAMINANT	S	method	limit/base	current	history1	history2
				-		

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	3	2
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	0	1	2

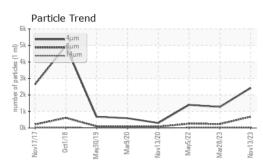
FLUID CLEANLINESS	method			history1	history2
Particles >4µm	ASTM D7647		2427	1274	1402
Particles >6µm	ASTM D7647	>2500	685	238	261
Particles >14µm	ASTM D7647	>640	37	23	19
Particles >21µm	ASTM D7647	>160	6	5	3
Particles >38µm	ASTM D7647	>40	0	0	0
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>/18/16	18/17/12	17/15/12	18/15/11

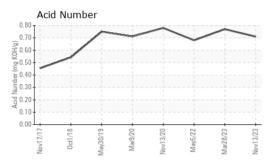


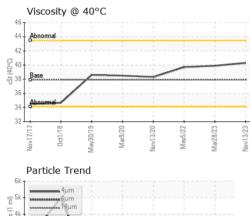
OIL ANALYSIS REPORT

Color

Bottom







Mar9/20

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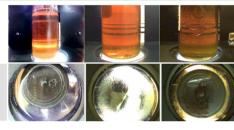
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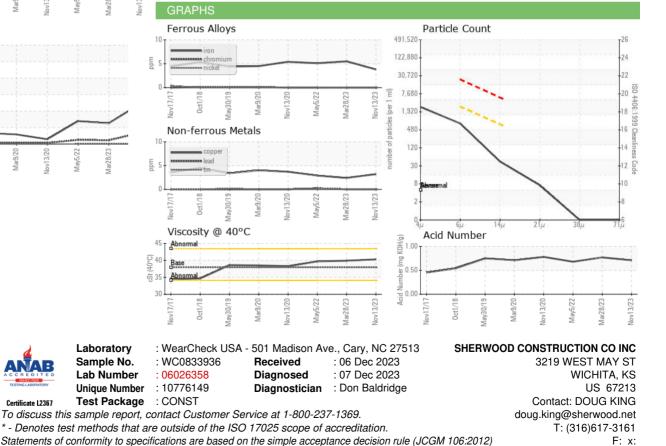
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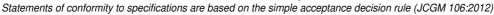
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Nov17/17

FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.71	0.77	0.68
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	37.9	40.3	39.9	39.7
SAMPLE IMAGES	;	method	limit/base	current	history1	history2







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Submitted By: WENDY DUNSON

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