

OIL ANALYSIS REPORT

ALLIS-CHALMERS U-24 GENERATOR Component

Thrust Bearing Fluid

NOT GIVEN (2000 GAL)

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.



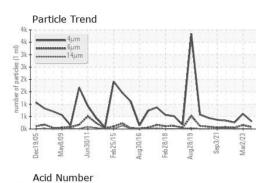


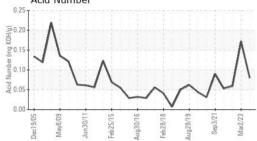
Sample Rating Trend

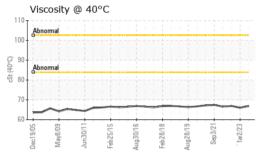
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0845041	WC0786727	WC0731014
Sample Date		Client Info		12 Sep 2023	02 Mar 2023	16 Sep 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>85	<1	<1	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	0	<1	<1
Lead	ppm	ASTM D5185m	>60	<1	1	0
Copper	ppm	ASTM D5185m	>7	2	2	2
Tin	ppm	ASTM D5185m	>40	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m		2	<1	2
Calcium	ppm	ASTM D5185m		40	37	29
Phosphorus	ppm	ASTM D5185m		23	14	30
Zinc	ppm	ASTM D5185m		7	11	7
Sulfur	ppm	ASTM D5185m		310	306	97
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	<1	1
Sodium	ppm	ASTM D5185m		3	0	<1
Potassium	ppm	ASTM D5185m	>20	1	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		303	608	265
Particles >6µm		ASTM D7647	>1300	79	156	46
Particles >14µm		ASTM D7647	>160	7	8	4
Particles >21µm		ASTM D7647	>40	2	2	1
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/14	15/13/10	16/14/10	15/13/9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.08	0.172	0.059

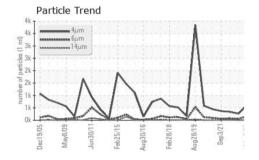


OIL ANALYSIS REPORT









		method				history2
VISUAL White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal			NONE	NONE	NONE	NONE
	scalar	*Visual *Visual	NONE	NONE	NONE	NONE
Precipitate	scalar			-		
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	>2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
√isc @ 40°C	cSt	ASTM D445		66.8	66.0	66.9
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
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Color						
			1			
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PrtFilter				no image	no image	no image
GRAPHS						
GRAPHS Ferrous Alloys			491,520	Particle Count		T ²⁶
Ferrous Alloys			491,520	Particle Count		
Ferrous Alloys			122,880			-24
Ferrous Alloys			122,880 30,720			+2- +2:
Ferrous Alloys	0/16	8/19.	122,880 30,720			+24 +22
Ferrous Alloys	Aug30/16. Feb28/18	Aug28/19 Sep3/21	122,880 30,720			+2- +2:
Ferrous Alloys		Aug28/19 Sep3/21	122,880 30,720			+2- +2:
Ferrous Alloys		Aug28/19	122,880 30,720			+24 +22
Ferrous Alloys		Aug28/19 8	122,880 30,720 EZ 7,680 EZ 7,680 Solution B 1,920 Solution 480 480 480 120			-2- -2: -2: -16 -16 -14
Ferrous Alloys		Aug28/19 Sep3/21	122,880 30,720 ECZCZEW 7,680 Feed to an apprend to apprend			-24 -22 -22 -18 -18 -14 -14 -12
Ferrous Alloys	s	ter a filmer (band / revenue	122,880 30,720 E2272rem E2272rem W 7,680 1,920 1			-24 -22 -22 -18 -18 -14 -14 -12
Ferrous Alloys	s	ter a filmer (band / revenue	122,880 30,720 E2272rem E2272rem W 7,680 1,920 1			-24 -22 -22 -18 -18 -14 -14 -12
Ferrous Alloys		Aug28/19 Sep3/21 Sep3/21 Sep3/21	122,880 30,720 Te 7,680 te 1,920 te 1,9	Bereenal		-24 -27 -20 -16 -14 -14 -12 -10 -8 -8
Ferrous Alloys	s	ter a filmer (band / revenue	122,880 30,720 (m 7,680 (m 1,ad) 1,920 (m 1,ad) 1,9	Boreenal 4 6ju	14μ 21μ	-24 -22 -20 -16 -16 -14 -14 -12 -10
Ferrous Alloys	s	ter a filmer (band / revenue	122,880 30,720 (m 7,680 (m 1,ad) 1,920 (m 1,ad) 1,9	Boreenal 4 6ju		-24 -27 -20 -16 -14 -14 -12 -10 -8 -8
Ferrous Alloys	s	ter a filmer (band / revenue	122,880 30,720 (m 7,680 (m 1,ad) 1,920 (m 1,ad) 1,9	Boreenal 4 6ju		-24 -27 -20 -16 -14 -14 -12 -10 -8 -8
Ferrous Alloys	s	ter a filmer (band / revenue	122,880 30,720 (m 7,680 (m 1,ad) 1,920 (m 1,ad) 1,9	Boreenal 4 6ju		-24 -22 -20 -18 -16 -14 -12 -10 -8 -8
Ferrous Alloys	S Yungadu g	Aug28/19	122,880 30,720 (m 7,680 1920 1920 1920 1920 1920 1920 1920 192	Boreenal	14μ 21μ	-24 -27 -27 -27 -18 -14 -14 -12 -10 -8 -36μ 71μ
Ferrous Alloys	S Yungadu g	Aug28/19	122,880 30,720 (m 7,680 1920 1920 1920 1920 1920 1920 1920 192	Boreenal	14μ 21μ	-24 -27 -27 -27 -18 -14 -14 -12 -10 -8 -36μ 71μ
Ferrous Alloys	s	ter a filmer (band / revenue	122,880 30,720 (m 7,680 (m 1,ad) 1,920 (m 1,ad) 1,9	Boreenal 4 6ju		-24 -27 -20 -16 -14 -14 -12 -10 -8 -8
Ferrous Alloys	Aug30/16	Aug28/19 Aug28/19 Sep3211 Sep3211 Sep3211 Sep3212 H	122,880 30,720 (m 1 24) 30,720 (m 1 24) 31,920 480 120 120 30 120 480 120 480 120 480 480 480 480 480 480 480 480 480 48	Acid Number	Feb.25/15	-24 -27 -20 -16 -16 -14 -14 -12 -10 -12 -20 -18 -16 -14 -14 -12 -20 -18 -16 -16 -16 -16 -16 -16 -16 -16 -16 -16
Ferrous Alloys	s Hond 30/16 Hond 30/16 Hon	BL/82 Biny BL/82 Biny Blog Bing Blog	122,880 30,720 (m 7,680 19,20 10,000 10,00	Acid Number	14μ 21μ	
Ferrous Alloys	s Handballing Ha	GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw GLU825hrw	122,880 30,720 10 122,880 30,720 10 120 10 10 120 1	Acid Number		24 22 21 21 46 44 47 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Ferrous Alloys	s Hond 30/16 Hond 30/16 Hon	son Ave., Ca d : 25 sed : 27 s	122,880 30,720 (m 7,680 19,20 10,000 10,00	Acid Number		Aug28/19

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)

MASSENA, NY US 13662 Contact: ANDY WESTMACOTT Andy.Westmacott@nypa.gov T: (315)764-6250 D12) F: (315)764-6612

Certificate L2367

Laboratory

Sample No. Lab Number Unique Number Test Package