

## **OIL ANALYSIS REPORT**

Sample Rating Trend



BLOWER #8 (S/N 7547)

Blower

#### Fluid AW HYDRAULIC OIL ISO 46 (300 LTR)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### Fluid Condition

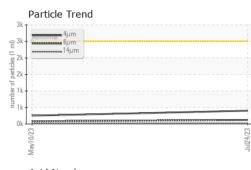
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

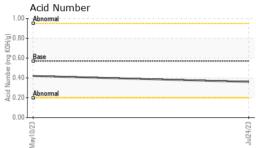
		L	May2023	Jul2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0840707	PP	
Sample Date		Client Info		24 Jul 2023	10 May 2023	
Machine Age	hrs	Client Info		0	0	
Dil Age	hrs	Client Info		0	0	
Dil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>20	0	0	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	0	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	0	0	
_ead	ppm	ASTM D5185(m)	>20	0	0	
Copper	ppm	ASTM D5185(m)		<1	0	
Sopper Fin	ppm	ASTM D5185(m) ASTM D5185(m)	>20	< 1 0	0	
		( )	>20			
Antimony	ppm	ASTM D5185(m)		0	<1	
/anadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	5	0	<1	
Barium	ppm	ASTM D5185(m)	5	0	0	
Nolybdenum	ppm	ASTM D5185(m)	5	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	25	11	10	
Calcium	ppm	ASTM D5185(m)	200	58	60	
Phosphorus	ppm	ASTM D5185(m)	300	373	380	
Zinc	ppm	ASTM D5185(m)	370	449	432	
Sulfur	ppm	ASTM D5185(m)	2500	941	975	
₋ithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	1	1	
Sodium	ppm	ASTM D5185(m)		<1	0	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	402	252	
Particles >6µm		ASTM D7647	>640	123	82	
Particles >14µm		ASTM D7647	>80	13	10	
Particles >21µm		ASTM D7647		5	3	
Particles >38µm		ASTM D7647	>4	1	0	
Particles >71µm		ASTM D7647		0	0	
Dil Cleanliness		ISO 4406 (c)	>18/16/13	0 16/14/11	15/14/10	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN) 18:43) Rev: 1	mg KOH/g	ASTM D974*	0.57	0.36 Conta	0.42 act/Location: Al F	Roffey - DUFPIC

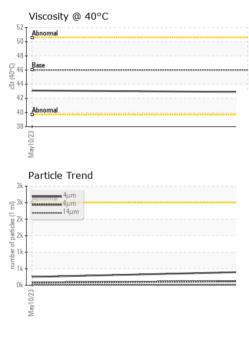
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	VISUAL		method	limit/base	current	history1	history2
-	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	Precipitate	scalar	Visual*	NONE	NONE	NONE	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	VLITE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Jul24/23	Appearance	scalar	Visual*	NORML	NORML	NORML	
Juľ	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*		NEG	NEG	
1	Free Water	scalar	Visual*		NEG	NEG	
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	46	42.9	43.1	
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
	Color						no image
	Bottom				0		no image
	GRAPHS						
· · · · · · · · · · · · · · · · ·	Ferrous Alloys				Particle Coun	t	
				491,520	Ι		T <sup>26</sup>
	6 chromium			122.000			
				122,880	t		124
				30,720			
	2			30,720			+22
	2			30,720	Severe Abnormal		+22
	nan 4 2 0 0 201/eM			30,720	Severe Abnormal		+22
	2 0 EZZIO Non-ferrous Meta	ls		30,720	Severe Abnormal	×.	-22
	2 E2/0 //eW	ls		30,720 7,680 (Tu 1,920 2014 2017 890 1,920 480 480	Severe		-22
	Non-ferrous Meta	ls		30,720 7,680 C2/H2In 1,920 480 529 120 120	Severe Abnormal	**	-2: -2: -18 -18 -14
	Non-ferrous Meta	ls		30,720 7,680 (Tu 1,920 2014 2017 890 1,920 480 480	Severe Abnormal	•	-2: -2: -18 -18 -14
	Non-ferrous Meta	ls		30,720 7,680 C2/H2In 1,920 480 529 120 120	Abnormal		-22 -24 -18 -16 -14 -14 -14
	Non-ferrous Meta	ls		30,720 7,680 (E 1 ad) september 1,920 1,92	Abnormal		-22 -20 -18 -16 -14 -14
	Non-ferrous Meta	ls		30,720 7,680 (E 1 ad) september 1,920 1,92	Abnormal		-22 -20 -18 -16 -14 -14
	Non-ferrous Meta	ls		30,720 7,680 (EU+b2lin) (EE 1 as 1,920 asptred 480 120 120 30	Abnormal	140 27.	-22 -20 -18 -16 -14 -12 -10 -8
	Non-ferrous Meta	ls		30,720 7,680 7,680 20,720 1,92	Abnormal	14μ 21μ	-22 -20 -18 -16 -14 -14
	Non-ferrous Meta	ls		30,720 7,680 7,680 20,720 1,92	Abnormal	14μ 21μ	-22 -20 -16 -16 -16 -16 -16 -16 -16 -16 -16 -16
	Non-ferrous Meta	ls		30,720 7,680 (i i i a) 1,920 (i i i a) 1,920 applied to a spope d to a 120 30 8 8 6 2/HZIM (i i i a) 1,920 30 30 30 480 480 30 480 30 480 480 30 480 480 480 480 480 480 480 480 480 48	Abnormal Acid Number	14μ 21μ	-22 -20 -18 -16 -14 -12 -10 -8
	Non-ferrous Meta	ls		30,720 7,680 (ie i a) 1,920 (ie i a) 1,920 aspote 400 approved 10	Abnormal	14μ 21μ	-22 -20 -16 -16 -16 -16 -16 -16 -16 -16 -16 -16
	Non-ferrous Meta	ls		30,720 7,680 (ie i a) 1,920 (ie i a) 1,920 aspote 400 approved 10	Abnormal	14μ 21μ	-22 -20 -18 -16 -14 -12 -10 -8
	Non-ferrous Meta	ls		30,720 7,680 ([u 1 ad) sappared to a aquinu 30 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Abnormal	14μ 21μ	-22 -20 -18 -16 -14 -12 -10 -8
	Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta	ls		30,720 7,680 ([[u] 1 a) 1,920 ([u] 1 a) 30,00 ([u] 1 a) 30,00 30,00 ([u] HOJ 0) 30 ([u] HOJ 0) 3	Abnormal	14μ 21μ	-22 -20 -18 -16 -14 -12 -10 -8 -38µ 71µ
	Non-ferrous Meta	ls		30,720 7,680 ([u 1 ad) sappared to a aquinu 30 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Abnormal	14μ 21μ	-22
	Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Lead Viscosity @ 40°C	175 Apple		30,720 7,680 (III 1,920 (III 1,920 (III 1,920 (III 1,920 (III 1,920 (III 1,920 30 120 30 62/F2Inf (III 1,920 30 62/F2Inf (III 1,920 30 60/F2Inf (III 1,920 30 60/F2Inf (III 1,920 30 60/F2Inf (III 1,920 60/F2Inf (III 1,920 60/F2IN (III 1,920 60/F2IN (III 1,920 60/F2IN (III 1,920 60/F2IN (IIII 1,92	Abnormal Abnormal Acid Number Abnormal	I CREEK (YORK-D	22 18 16 16 14 12 16 16 14 12 16 38μ 71μ DURHAM) WPC
Laboratory Sample No.	Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Lead Viscosity @ 40°C	175 Apple Received	<b>1</b> : 18 /	30,720 7,680 (IL 1a) 1,920 (IL 1a) 1,920 (IL 1a) 1,920 120 30 62/F2In (IL 1a) 1,920 30 62/F2In (IL 1a) 1,920 30 60 120 120 30 120 30 120 30 120 30 120 30 120 30 120 30 120 30 120 30 120 30 100 100 100 100 100 100 100	Abnormal Abnormal Acid Number Abnormal	CREEK (YORK-D 901	22 20 18 16 14 14 12 10 8 38µ 71µ 20 8 90 8 90 90 90 90 90 90 90 90 90 90 90 90 90
	Non-ferrous Meta Non-ferrous Meta Non-ferrous Meta Copper Lead Viscosity @ 40°C State Anomal Base Copper States State	175 Apple	d : 18/	30,720 7,680 (III 1,920 (III 1,920 (III 1,920 (III 1,920 (III 1,920 (III 1,920 30 120 30 62/F2Inf (III 1,920 30 62/F2Inf (III 1,920 30 60/F2Inf (III 1,920 30 60/F2Inf (III 1,920 30 60/F2Inf (III 1,920 60/F2Inf (III 1,920 60/F2IN (III 1,920 60/F2IN (III 1,920 60/F2IN (III 1,920 60/F2IN (IIII 1,92	Abnormal Abnormal Acid Number Abnormal	CREEK (YORK-D 901	

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Validity of results and interpretation are based on the sample and information as supplied.

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