

OIL ANALYSIS REPORT

Sample Rating Trend

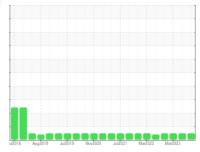




KEMP QUARRIES / RIVER VALLEY ARKOMA WL108

Component **Hydraulic System**

AW HYDRAULIC OIL ISO 68 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

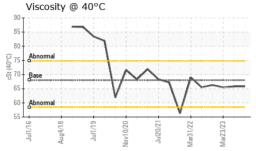
Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	//ATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		PCA0083947	PCA0084135	PCA0070329		
Sample Date		Client Info		08 Sep 2023	04 Aug 2023	23 Mar 2023		
Machine Age	hrs	Client Info		46129	46129	45601		
Oil Age	hrs	Client Info		45035	45035	45601		
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
WEAR METALS	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	2	2	<1		
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>10	<1	0	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>10	2	<1	2		
Lead	ppm	ASTM D5185m	>10	0	0	0		
Copper	ppm	ASTM D5185m	>75	2	3	2		
Tin	ppm	ASTM D5185m	>10	<1	0	0		
Vanadium	ppm	ASTM D5185m		0	<1	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	5	<1	0	0		
Barium	ppm	ASTM D5185m	5	0	0	0		
Molybdenum	ppm	ASTM D5185m	5	1	<1	<1		
Manganese	ppm	ASTM D5185m		<1	0	<1		
Magnesium	ppm	ASTM D5185m	25	19	6	4		
Calcium	ppm	ASTM D5185m	200	87	78	67		
Phosphorus	ppm	ASTM D5185m	300	370	380	350		
Zinc	ppm	ASTM D5185m	370	476	470	448		
Sulfur	ppm	ASTM D5185m	2500	1135	1121	652		
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>20	3	3	3		
Sodium	ppm	ASTM D5185m		2	<1	0		
Potassium	ppm	ASTM D5185m	>20	2	0	0		
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 PROPE	RTIES	method	limit/base	current	history1	history2		
				Odifoli				



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SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image
OD A DUO			no image	no intage	no image

	GRAPHS													
40 T	Iron (ppm)					30	Lead	d (ppm	1)				
35 - 30 -	Severe						25	Severe		-		-	+++	
25 - E 20 -	Abnormal						20 툂 15						1	
15 -							B 19	Abno	mal					
10 - 5 -		~					5							
0.1	Jul1/16 +	- 6L/IInf	Nov10/20	Jul20/21	Mar31/22	Mar23/23	0	Jul1/16	Aug4/18	Jul1/19	Nov10/20	Jul20/21	Mar31/22	Mar23/23
	4		Nov1	Jul	Mar3	Mar2					_	Jul	Mar3	Mar2
³⁰ T	Aluminum	(ppm)					30	Chro	omium	(ppm)			1-1-1-1
25 -	Severe						25	Severe						
20 - E 15 -							20 를 15							
10-	Abnormal						10	Abno	mal					
5 -	\sim						5							
01	Jull/16 -	- 61/11nf	Nov10/20	Jul20/21	Mar31/22 -	Mar23/23 -	0	Jul1/16	Aug4/18	Jul1/19	Nov10/20	Jul20/21-	Mar31/22	Mar23/23
	¬		Nov	٦	Mai	Mai					Nov	ηſ	Mai	Mai
250 T	TITT						60	Severe						
200 -	Severe						50 40	0						
150 + E							튎30							
100 -	Abnormal						20	Abnor	mal					
0							10		\searrow	\frown	\			-
	Jul1/16	Jul1/19	Nov10/20	Jul20/21	Mar31/22	Mar23/23		Jul1/16	Aug4/18	Jul1/19	Nov10/20	Jul20/21	Mar31/22	Mar23/23
	Viscosity @	⊉ 40°C	Z		2	2		Add	itives		Z		2	2
90 T 85 -		\					3500 3000	-	calciu					
80	Abnormal	7					2500		aaaaaa phosj	pilotus				
(200 75 - 75 70 - 75 70 -	Base	1	\sim	\			E 2000		4	\neg				
65 - 60 -	Abnormal		V		$\langle \rangle$		1000 500	-	-	NAME OF TAXABLE PARTY.	The same of			
55		6	20	21-	22 - 22	23	0	91	80	61	02	7112	77	53
	Jull/16 -	Jul1/19	Nov10/20	Jul20/21	Mar31/22	Mar23/23		Jull/16	Aug4/18	Jull/19	Nov10/20	Jui20/21	Mar31/22	Mar23/23





Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10649501 Test Package : MOB 1

: PCA0083947 : 05953542

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Sep 2023 Diagnosed : 19 Sep 2023 Diagnostician : Wes Davis

Kemp Quarries - River Valley - Arkoma 12971 HWY 9a

Shawnee, OK US 74804 Contact:

arkomashop@kempquarries.net T:

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)

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