

OIL ANALYSIS REPORT

KEMP QUARRIES / BCS - GRAVETTE [65250] **OHT111** Component

Hydraulic System AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Pm3)

Wear

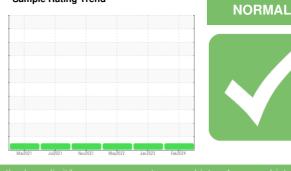
All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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



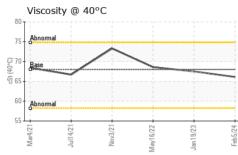
Sample Rating Trend



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108529	PCA0062012	PCA0037611
Sample Date		Client Info		05 Feb 2024	19 Jan 2023	16 May 2022
Machine Age	hrs	Client Info		24208	20812	20379
Oil Age	hrs	Client Info		24208	20812	20379
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	5	8	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
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	1	9	1
Tin	ppm	ASTM D5185m	>10	0	<1	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	5	0	0	<1
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	<1	4	2
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	25	15	44	33
Calcium	ppm	ASTM D5185m	200	100	249	434
Phosphorus	ppm	ASTM D5185m	300	330	406	423
Zinc	ppm	ASTM D5185m	370	486	475	553
Sulfur	ppm	ASTM D5185m	2500	911	1009	1388
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	6	8
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
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	Sublemented By:



OIL ANALYSIS REPORT



Jan 19,23 +	Color Bottor Iron 0 10 10 10 10 10 10 10 10 10 10 10 10 1	m APHS n (ppm) mmal	Nov321	May16/22 +	nethod	Feb5/24	no ii no ii 25 20 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 25 30 30 25 30 30 25 30 30 30 30 30 30 30 30 30 30 30 30 30	nium (p	no in		no ima no ima 	age
Jan 15/2. Feb5/24	CR Iron 40 5 20 Abno 10 0 12 5 0	APHS n (ppm) e mmal		May16/22	Jan 19/23	Feb5/24	Lead Severe 20 15 0 Chroi 30 Chroi 30 25 0 Chroi 30 20 Chroi	(ppm) al mium (p	Nov3/21			age
	Iron 40 30 40 5 0 Abno 40 5 0 Abno 5 0 Abno 5 0 Abno 5 0	n (ppm) e mmal ninum (p e		May16/22	Jan 19/23	Feb5/24	30 25 20 10 15 0 20 20 20 20 20 20 20 20 20 20 20 20 2	al Juli4/21		May16/22	Jan 19/23	
	40 30 5 0 40 Sever 30 40 Sever 30 40 Sever 30 40 5 0 40 5 0	e Imal 12/HING P Ininum (p e		May16/22	Jan 19/23	Feb5/24	30 25 20 10 15 0 20 20 20 20 20 20 20 20 20 20 20 20 2	al Juli4/21		May16/22	Jan 19/23	
	30 E 20 Abno: 10 0 10 0 10 10 0 10 10 10 1	mal [[2]b[[Inf minum (p		May16/22	Jan 19/23	Feb5/24	20 20 15 10 6 0 10 5 0 10 5 0 10 5 0 0 10 5 0 0 10 5 0 0 10 10 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	nium (p		May16/22	Jan19,23 -	
	Alur Alur 20 Alur 20 E 15 0 Abno 5 0	ninum (p e		May16/22+	Jani 9/23	Feb5/24	Chroi	nium (p		May16/22	52/61/mer	
	10 0 12/bew 25 20 4 25 20 5 0 4 25 4 20 5 0	minum (p e		May16/22	Jan19/23	Feb5/24	Abnorm	nium (p		May16/22	Jan19/23 -	
	Alur 30 25 20 5 10 5 0	minum (p e		May 6/22 -	Jan 19/23		Chroi	mium (p		May16/22	Jan 19/23	
	Alur 25 20 <u>5</u> 10 5	minum (p e		May16/2	Jan19/2		Severe 20 15	mium (p		May16/2	Jan 19/2	
	30 25 20 <u>E</u> 15 10 5 0	e Irmal	pm)				25 Severe 20		pm)			
	25 - Sever 20 - 5 - Abnor 5 - 0	ımal					25 - Severe 20	al				
	톱 15 10 - Abnor 5						a 15 - Abrom	al				
	10 Abnor						Abrem	al				
									1		1	
	4/2		1	2			5			2		
	Mar4/21	Jul14/21	Nov3/21	May16/22	Jan 19/23	Feb5/24	Mar4/21	Jul14/21	Nov3/21	May16/22	Jan 19/23	
	Сор 250 т п	per (ppm)	-			Silico	n (ppm)		-		
	200 - Sever	e					50 - Severe					
	150						40 -					
	Abnor	rmal					20 - Abnorm	al				
	0			2		4	0			2		
	Mar4/2	Jul14/2	Nov3/2	/lay16/2	Jan 19/2	Feb 5/2	Mar4/2	Jul14/2	Nov3/2	/lay16/2	Jan 19/2:	5 - -
		osity @ 4	0°C	~				ives		~		
		rmal				1	200-	calcium phosphor				
	() 70 - Base		\frown	<u> </u>		E	800	zinc				
							400	V	and the second s	1		Constantion of the local
	55		+	2			0		+	2		
	Mar4/2	Jul14/2	Nov3/2	May16/2	Jan19/2	Feb 5/2*	Mar4/2	Jul14/2	Nov3/2	May16/2	Jan19/2	
ample No. ab Number hique Number est Package	: PCA01 : 061012 : 108994 : MOB 1	08529 <mark>260</mark> 190	R T D	dison Av eceived ested liagnose	i : 26 : 28 ed : 28	6 Feb 2024 8 Feb 2024 Feb 2024 - Jo		er		nton Count 15 Sulphi	100 N H ur Spring US 7 Cor	wy 5 js, A 7276 ntact
	boratory mple No. b Number ique Number st Package mple report, ethods that a	boratory : WearC mple No. : PCA01 b Number : 061012 ique Number : 108994 st Package : MOB 1 mple report, contact of ethods that are outsid	boratory : WearCheck USA mple No. : PCA0108529 b Number : 10899490 st Package : MOB 1 mple report, contact Customer ethods that are outside of the J	boratory : WearCheck USA - 501 Ma mple No. : PCA0108529 F b Number : 10899490 D st Package : MOB 1 mple report, contact Customer Service a ethods that are outside of the ISO 17025	boratory : WearCheck USA - 501 Madison Am mple No. : PCA0108529 Received b Number : 10899490 Diagnose st Package : MOB 1 mple report, contact Customer Service at 1-800-4 ethods that are outside of the ISO 17025 scope of	boratory : WearCheck USA - 501 Madison Ave., Cary mple No. : PCA0108529 Received : 24 b Number : 06101260 Tested : 28 st Package : MOB 1 mple report, contact Customer Service at 1-800-237-136 ethods that are outside of the ISO 17025 scope of accred	boratory : WearCheck USA - 501 Madison Ave., Cary, NC 2751 mple No. : PCA0108529 Received : 26 Feb 2024 b Number : 06101260 Tested : 28 Feb 2024 - Jo st Package : MOB 1 mple report, contact Customer Service at 1-800-237-1369.	boratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 mple No. : PCA0108529 Received : 26 Feb 2024 b Number : 06101260 Tested : 28 Feb 2024 b Number : 10899490 Diagnosed : 28 Feb 2024 - Jonathan Hest st Package : MOB 1 mple report, contact Customer Service at 1-800-237-1369.	boratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Kemp Qu boratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Kemp Qu boratory : 106101260 Tested : 26 Feb 2024 b Number : 06101260 Tested : 28 Feb 2024 gue Number : 10899490 Diagnosed : 28 Feb 2024 st Package : MOB 1 mple report, contact Customer Service at 1-800-237-1369. gra	boratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Kemp Quarries - Be mple No. : PCA0108529 Received : 26 Feb 2024 b Number : 106101260 Tested : 28 Feb 2024 b Number : 10899490 Diagnosed : 28 Feb 2024 fugue Number : 10899490 Diagnosed : 28 Feb 2024 b Number : 06101260 Received : 28 Feb 2024 fugue Number : 10899490 Diagnosed : 28 Feb 2024 fugue Number : 10899490 Diagnosed : 28 Feb 2024 - Jonathan Hester st Package : MOB 1 mple report, contact Customer Service at 1-800-237-1369.	boratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PCA0108529 b Number : DCA0108529 rested : 28 Feb 2024 to 10899490 b Number : 108949490 b Number : 10849490 b Number :	boratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 WearCheck USA - 501 Madison Ave., Cary, NC 27513 to perform the second se

δŪ