

# **OIL ANALYSIS REPORT**

Sample Rating Trend





## Area KEMP QUARRIES / RIVER VALLEY BACKBONE WL147 Component

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

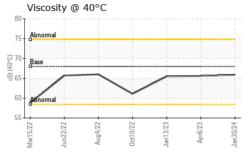
### Fluid Condition

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

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0069952	PCA0085829	PCA0037165
Sample Date		Client Info		30 Jan 2024	06 Apr 2023	13 Jan 2023
Machine Age	hrs	Client Info		29627	28770	28425
Oil Age	hrs	Client Info		1200	345	1200
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
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	3	<1	2
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	<1	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	1	0	<1
Tin	ppm	ASTM D5185m	>10	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<1	1	<1
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	5	2	2
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m	25	36	14	8
Calcium	ppm	ASTM D5185m	200	113	141	80
Phosphorus	ppm	ASTM D5185m	300	387	360	333
Zinc	ppm	ASTM D5185m	370	483	477	390
Sulfur	ppm	ASTM D5185m	2500	892	779	675
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	1	<1	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
rotabolam	ppin					
VISUAL	ррпп	method	limit/base	current	history1	history2
	scalar			current NONE	history1 NONE	history2 NONE
VISUAL White Metal		method	limit/base			
VISUAL White Metal Yellow Metal	scalar	method *Visual	limit/base NONE	NONE	NONE	NONE
VISUAL White Metal Yellow Metal Precipitate	scalar scalar	method *Visual *Visual	limit/base NONE NONE	NONE NONE	NONE NONE	NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt	scalar scalar scalar	method *Visual *Visual *Visual	limit/base NONE NONE NONE	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE MODER
VISUAL White Metal Yellow Metal Precipitate Silt	scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE NORE	NONE NONE NONE NONE NONE NORE	NONE NONE NONE NONE NONE NORML	NONE NONE NONE MODER NONE NORML
VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE NONE NONE NORML NORML	NONE NONE NONE MODER NONE NORML NORML



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	Visc @ 40°C	cSt	ASTM D445	68	65.9	65.6	65.5
	SAMPLE	IMAGES	method	limit/base	current	history1	history
23	Color				no image	no image	no image
0ct10/22 Jan13/23 Apr6/23 Jan30/24	Bottom				no image	no image	no image
	GRAPHS					1	
	Iron (ppm)			3	Lead (ppm)		
	30			2			
	20 - <b>Abnormal</b>			2 특1			
	10-			1	Abrement		
	0				5		
	Mar15/22 Jun22/22	Aug4/22 0ct10/22	Jan 13/23 Apr6/23	Jan30/24	Mar15/22 Jun22/22	Aug4/22 0ct10/22	an 13/23 Apr6/23
	≤ ⊰ Aluminum (		-Š	ř	≥ ⊰ Chromium (µ		č
	30 25 Severe	1 1		2	Smuoro		
	_ 20 -			2			
	15 10 - Abnormal			톱1 1	Abrement		
	5-				5-		
	Mar15/22	Aug4/22 +	Jan 13/23 - Apr6/23 -	Jan 30/24	Mar15/22	Aug4/22 - Oct10/22 -	Jan 1 3/23
	≝ ≒ Copper (pp		Jar A	Jar	Silicon (ppm)		A de
	250			6	<sup>0</sup> I		1 I 1 I
	200			4	0-		
	a 100 Abnormal			43 2	0 - Abnormal		
	50-						
	5/22	Aug4/22	an 13/23 + Apr6/23 + -		212	Aug4/22	an 13/23
	Mar15/22 Jun22/22		Jan 13/23 Apr6/23	Jan30/24	Mar15/22 Jun22/22	Aug4/22 0ct10/22	Jan 13/23 Apr6/23
	Viscosity @ <sup>80</sup> T	40°C		140	Additives		
	75 - Abnormal			120	BARRARARARA Dhosphor	rus	
	0000000000000000000000000000000000000			80 60	0-		
	60 Abhormal	$\sim$		40	0		a Del Data de la Colonia de la
	55	22				2	
	Mar15/22 Jun22/22	Aug4/22	Jan 13/23 Apr6/23	Jan30/24	Mar15/22 Jun22/22	Aug4/22 0ct10/22	Jan 1 3/23 Apr6/23
ate L2367 Unique Numb	PCA0069952   er : 06082137   ner : 10869582   ge : MOB 1	Rec Test Diag	eived : 00 ed : 07 jnosed : 07	6 Feb 2024 7 Feb 2024 7 Feb 2024 - V	Ves Davis		600 S Hwy 2 Huntington, 1 US 729 Conta
scuss this sample rep	ort, contact Custome	er Service at 1-	-800-237-136 cope of accred	9.	bac	kbone@rivervall	eyquarries.c

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