

## **OIL ANALYSIS REPORT**

Sample Rating Trend

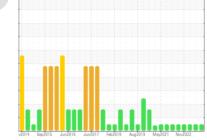
#### NORMAL



## KEMP QUARRIES / RIVER VALLEY BACKBONE **WL088**

Component **Hydraulic System** 

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)





DIAGNOSIS	SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0084828	PCA0084895	PCA0085862
esample at the next service interval to monitor. (	Sample Date		Client Info		10 Nov 2023	02 Oct 2023	09 Aug 2023
ustomer Sample Comment: Hour meter 6716)	Machine Age	hrs	Client Info		6716	36443	6146
ear	Oil Age	hrs	Client Info		900	600	300
l component wear rates are normal.	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
ontamination	Sample Status				NORMAL	NORMAL	NORMAL
nere is no indication of any contamination in the I.	CONTAMINA	TION	method	limit/base	current	history1	history2
uid Condition	Water		WC Method	>0.1	NEG	NEG	NEG
The condition of the oil is acceptable for the time in service.	WEAR META	LS	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>20	8	16	10
	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	2	0	2
	Lead	ppm	ASTM D5185m	>10	0	4	<1
	Copper	ppm	ASTM D5185m	>75	<1	1	<1
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	3	0
	Barium	ppm	ASTM D5185m	0	0	1	0
	Molybdenum	ppm	ASTM D5185m	0	3	3	1
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m	0	30	36	10
	Calcium	ppm	ASTM D5185m		116	118	80
	Phosphorus	ppm	ASTM D5185m		396	365	347
	Zinc	ppm	ASTM D5185m		489	478	452
	Sulfur		AOTH DELOC		981	1015	897
	Gallar	ppm	ASTM D5185m		301		
	CONTAMINA		method	limit/base		history1	history2
							history2 5
	CONTAMINA	NTS	method		current	history1	
	CONTAMINA Silicon	NTS ppm	method ASTM D5185m	>20	current 4	history1 7	5
	CONTAMINA Silicon Sodium	NTS ppm ppm	method ASTM D5185m ASTM D5185m	>20	current 4 0 1	history1 7 0	5
	CONTAMINA Silicon Sodium Potassium	NTS ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	current 4 0 1	history1 7 0 1	5 0 <1
	CONTAMINA Silicon Sodium Potassium VISUAL	NTS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	>20 >20 limit/base	current 4 0 1 current	history1 7 0 1 history1	5 0 <1 history2
	CONTAMINA Silicon Sodium Potassium VISUAL White Metal	NTS ppm ppm ppm scalar	method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	>20 >20 limit/base NONE	current 4 0 1 current NONE	history1 7 0 1 history1 NONE	5 0 <1 history2 NONE
	CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal	NTS ppm ppm ppm scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual *Visual	>20 >20 limit/base NONE NONE	current 4 0 1 current NONE NONE	history1 7 0 1 history1 NONE NONE	5 0 <1 history2 NONE NONE
	CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	NTS ppm ppm ppm ppm scalar scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE	Current 4 0 1 current NONE NONE NONE	history1 7 0 1 history1 NONE NONE NONE	5 0 <1 history2 NONE NONE NONE NONE
	CONTAMINA Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	NTS ppm ppm ppm scalar scalar scalar scalar	method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>20 >20 limit/base NONE NONE NONE NONE	Current 4 0 1 current NONE NONE NONE NONE	history1 7 0 1 history1 NONE NONE NONE LIGHT	5 0 <1 NONE NONE NONE NONE NONE

Odor

**Emulsified Water** 

Free Water

scalar \*Visual

scalar \*Visual

\*Visual

scalar

NORML

>0.1

NORML

NEG

NEG

NORML

NEG

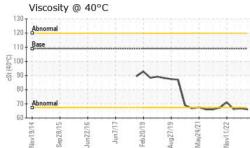
NEG

NORML

NEG



# **OIL ANALYSIS REPORT**



	FLUID PROPE	RTIES	method	limit/base	current	history1	history	y2
	Visc @ 40°C	cSt	ASTM D445	109	66.1	66.8	66.2	
******	SAMPLE IMAG	GES	method	limit/base	current	history1	history	y2
2 2 2 2 2 2	Color				no image	no image	no image	je
Jun7/17 Feb2019 Aug27/19 May24/21 Nov11,1/22	Bottom				no image	no image	no image	le
	GRAPHS							
mq 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Iron (ppm)			31	Lead (ppm)			
	40 Severe 30 chonomal	₩~	$\sim$	21 21 5 11 11	)- - Abnormal			
	Aluminum (ppm)	Feb20/19 +	Aug27/19		http://gl/vov/ http:/	Jun7/17 Feb20/19	Aug27/19 May24/21 Nov11/22	Δ
	25 - Severe	$\sim$	$\mathcal{M}$	2! 2i § 1! 11	Abnormal	~~~	~~~	
	51/82 des 51/82 des	Feb20/19	Aug27/19. May24/21. Mov11/22		Silicon (ppm)	Jun7/17 Feb20/19	Aug27/19. May24/21. Nov11/22	
	150 Abnormal	6	19	41 통 31  11	Abnormal		21- 22- 22-	~
	Viscosity @ 40°C	Feb20/19	Aug27/19 May24/21 Nov11/22	3001	entries	Jun7/17 Feb20/19	Aug27/19 May24/21 Nov11/22	
	110 - Base	~	1	2500 2000 500 2000 2000 2000 2000 2000	2 phosphoru zinc	~~~	1	
	Nov19/14	Feb20/19	Aug27/19	(	Nov19/14	Jun7/17	Aug27/19	
Laboratory Sample No. Lab Number Unique Number Test Package discuss this sample report, co Denotes test methods that an	: 06014684 : 10753828 : MOB 1	Received Diagnos Diagnosi	d : 21   ed : 24   tician : Dor	Nov 2023 Nov 2023 Baldridge			r Valley - Backb 5600 S Hwy Huntington, US 72 Conta alleyquarries.c	25 , AF 294 tact

