

OIL ANALYSIS REPORT

Sample Number

Sample Rating Trend

Client Info

NORMAL



PCA0084475 PCA0084178 PCA0062645

KEMP QUARRIES / RIVER VALLEY ARKOMA **GEN028**

Component **Diesel Engine**

MOBIL DELVAC 1300 SUPER15W40 (--- 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

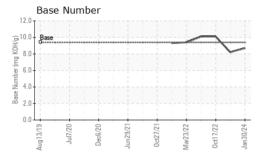
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

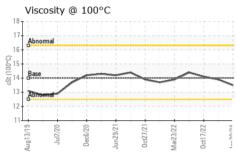


Sample Number		Ollerit IIIIO		F CA0004473	1 0/10004170	1 OA0002043
Sample Date		Client Info		30 Jan 2024	06 Oct 2023	17 Oct 2022
Machine Age	hrs	Client Info		4717	4339	3396
Oil Age	hrs	Client Info		4339	0	3396
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	11	10	21
Chromium	ppm	ASTM D5185m	>20	3	2	12
Nickel	ppm	ASTM D5185m	>2	1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	4
Lead	ppm	ASTM D5185m	>40	3	2	1
Copper	ppm	ASTM D5185m	>330	2	2	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	3	4
Barium	ppm	ASTM D5185m	0	0	12	0
Molybdenum	ppm	ASTM D5185m	0	60	58	58
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	912	954	921
Calcium	ppm	ASTM D5185m		986	1034	1051
Phosphorus	ppm	ASTM D5185m		985	964	971
Zinc	ppm	ASTM D5185m		1194	1204	1182
Sulfur	ppm	ASTM D5185m		2922	2902	3543
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	13
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	4	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.5	5.8
Sulfation		*AOTM D7445	>30	17.9	17.3	19.4
	Abs/.1mm	*ASTM D7415	>00	17.9	17.5	13.4
FLUID DEGRA			limit/base	current	history1	history2
FLUID DEGRAE	DATION	method	limit/base	current	history1	history2



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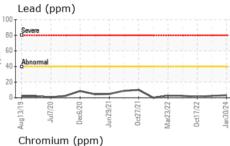


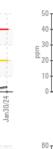


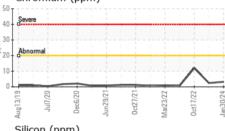
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

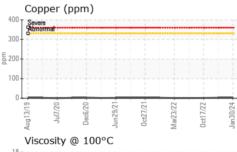
FLUID PROPE	RHES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14	13.5	13.9	14.1

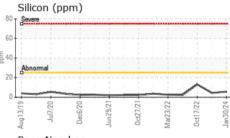
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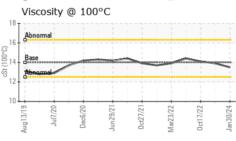


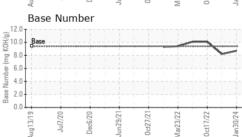














Laboratory Sample No. Lab Number : 06081918

: PCA0084475

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 06 Feb 2024 : 07 Feb 2024

: 08 Feb 2024 - Sean Felton

Kemp Quarries - River Valley - Arkoma

12971 HWY 9a Shawnee, OK US 74804

Unique Number: 10869363 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

Contact: arkomashop@kempquarries.net

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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