

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

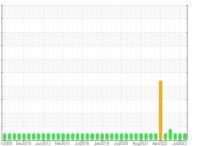


KEMP QUARRIES / RIVER VALLEY OZARK WL033

Component **Diesel Engine**

Fluic

MOBIL DELVAC 1300 SUPER15W40 (--- GAL)

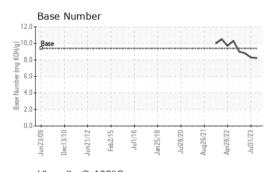


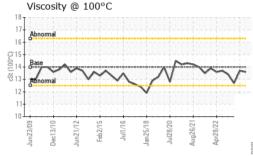


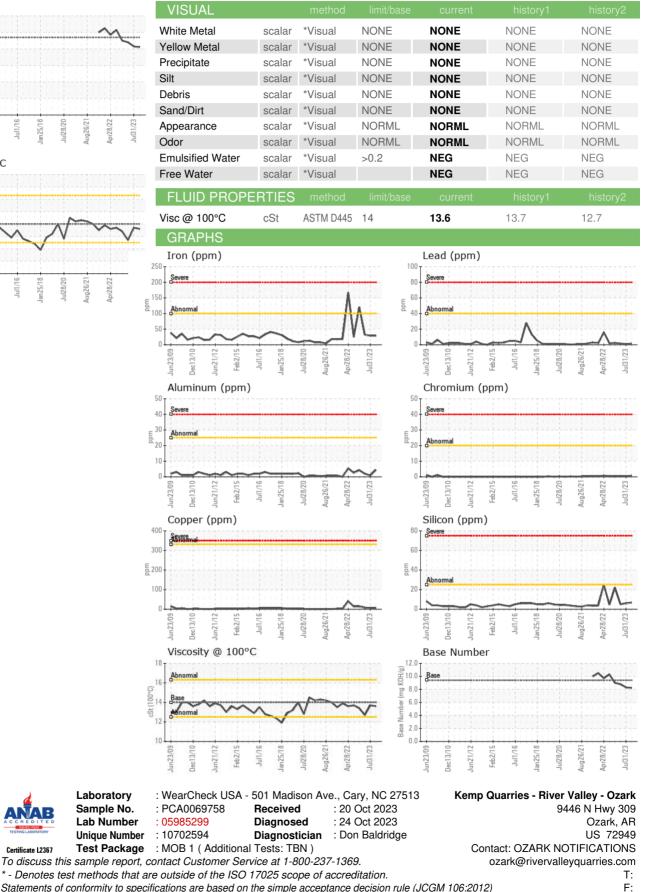
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
ecommendation	Sample Number		Client Info		PCA0069758	PCA0069687	PCA0084649
esample at the next service interval to monitor.	Sample Date		Client Info		10 Oct 2023	31 Jul 2023	23 May 2023
ear	Machine Age	hrs	Client Info		42265	42005	41725
l component wear rates are normal.	Oil Age	hrs	Client Info		40191	40191	40191
ontamination	Oil Changed		Client Info		N/A	N/A	N/A
nere is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
uid Condition	CONTAMINAT	ION	method	limit/base	current	history1	history2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		29	29	32
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	4	<1	2
	Lead	ppm	ASTM D5185m	>40	1	1	1
	Copper	ppm	ASTM D5185m	>330	7	6	8
	Tin	ppm	ASTM D5185m	>15	<1	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	<1	5
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	60	62	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	970	1030	978
	Calcium	ppm	ASTM D5185m		1130	1178	1124
	Phosphorus	ppm	ASTM D5185m		1058	1094	1089
	Zinc	ppm	ASTM D5185m		1307	1368	1306
	Sulfur	ppm	ASTM D5185m		3106	3966	3766
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	7	6	5
	Sodium	ppm	ASTM D5185m		3	4	2
	Potassium	ppm	ASTM D5185m	>20	3	1	<1
	INFRA-RED		method	limit/base		history1	history2
	Soot %	%	*ASTM D7844	>3	1.2	1.1	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.2	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.3	20.6
	Sullation						
	FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
			method *ASTM D7414		current 15.9	history1 15.7	history2 16.1



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number