

OIL ANALYSIS REPORT

Sample Rating Trend





Area KEMP QUARRIES / RIVER VALLEY ARKOMA [68062] 3215 Component

Natural Gas Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		PCA0084362		
or the source of water t service interval to e Comment: Changed Cummins 8.9I cng)	Sample Date		Client Info		10 Nov 2023		
	Machine Age	mls	Client Info		220158		
	Oil Age	mls	Client Info		3281		
	Oil Changed		Client Info		Not Changd		
re normal.	Sample Status				ABNORMAL		
	WEAR METALS		method	limit/base	current	history1	history2
ntration of water present	Iron	ppm	ASTM D5185m	>50	19		
	Chromium	ppm	ASTM D5185m	>4	2		
	Nickel	ppm	ASTM D5185m	>2	<1		
t there is suitable il. The condition of the vice.	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>9	2		
	Lead	ppm	ASTM D5185m	>30	1		
	Copper	ppm	ASTM D5185m	>35	1		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		<1		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	2		
	Barium	ppm	ASTM D5185m	0	9		
	Molybdenum	ppm	ASTM D5185m		65		
	Manganese	ppm	ASTM D5185m	0	<1		
	-	ppm		1010	954		
	Calcium	ppm	ASTM D5185m	1070	1112		
	· · ·	ppm		1150	1046		
		ppm	ASTM D5185m		1237		
	Sulfur	ppm	ASTM D5185m	2060	3513		
	CONTAMINANT	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>+100	9		
	Sodium	ppm	ASTM D5185m		<1		
	Potassium	ppm	ASTM D5185m	>20	4		
	Water	%	ASTM D6304	>0.1	A 0.364		
	ppm Water	ppm	ASTM D6304	>1000	A 3640		
	Glycol	%	*ASTM D2982		0.0		
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.1		
		Abs/.1mm	*ASTM D7415	>30	18.0		
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1		
			ASTM D2896		8.3		
		- V					

We advise that you check for the source of water entry. Resample at the next service interval to monitor. (Customer Sample Comment: Changed filter only, troubleshooting Cummins 8.9l cng)

Fluid

Wear

All component wear rates are normal.

Contamination

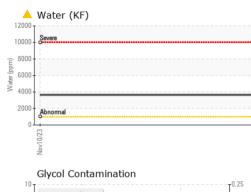
There is a moderate concentration of water present in the oil.

Fluid Condition

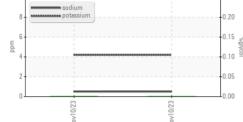
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

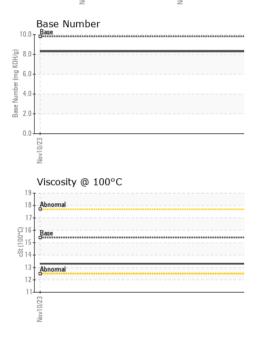


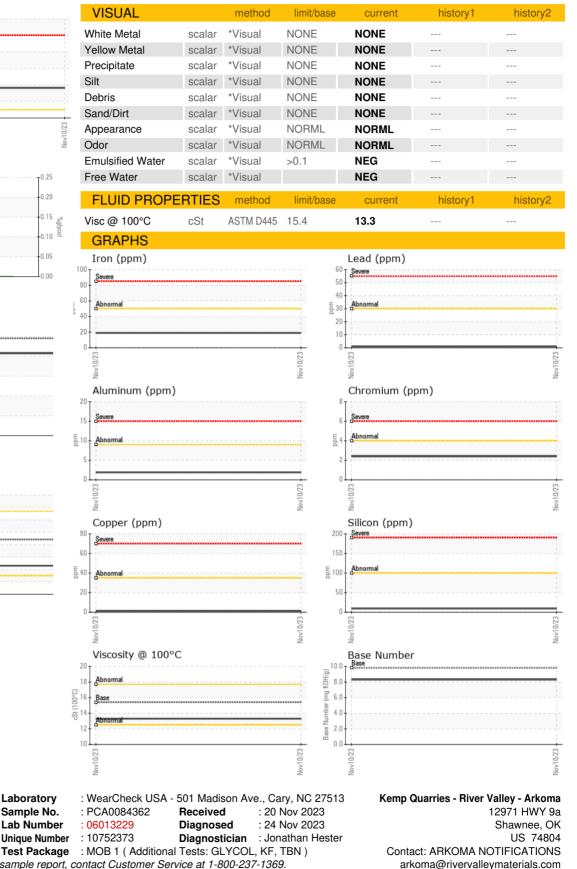
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Jav10/23







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)

Certificate L2367

Laboratory

Sample No.

Lab Number

T:

F: