

## **OIL ANALYSIS REPORT**

Sample Rating Trend





## CATERPILLAR 81Z12792 Component

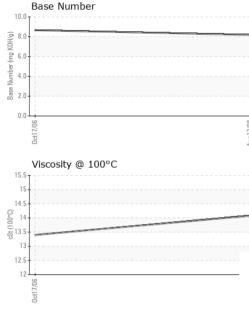
**Diesel Engine** Fluid

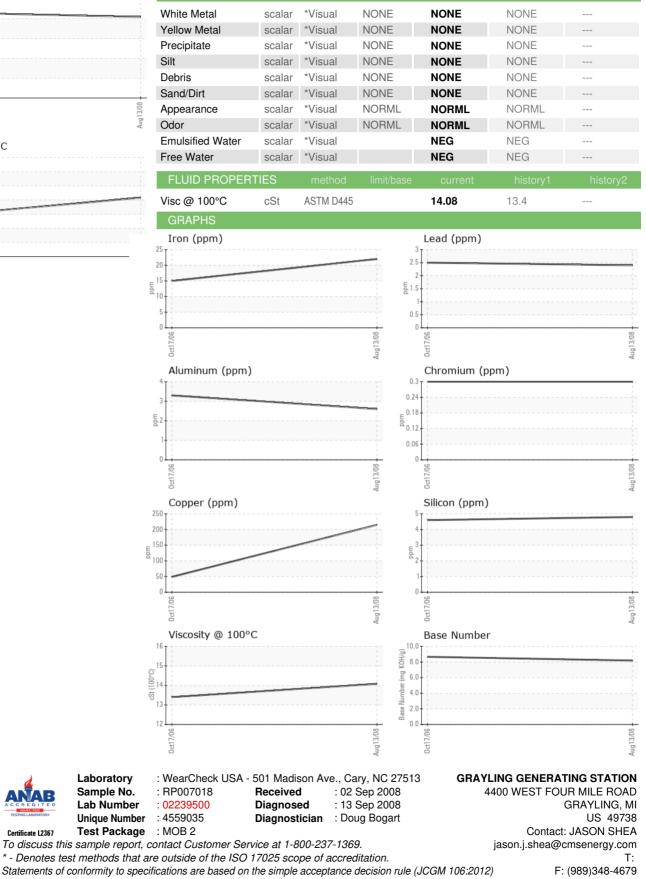
**ROYAL PURPLE MOTOR OIL 15W40 (19 GAL)** 

				002000	A092000		
DIAGNOSIS	SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		RP007018	RP007786	
Resample at the next service interval to monitor.	Sample Date		Client Info		13 Aug 2008	17 Oct 2006	
Vear	Machine Age	hrs	Client Info		469	421	
All component wear rates are normal.	Oil Age	hrs	Client Info		95	88	
Contamination	Oil Changed		Client Info		Not Changd	Not Changd	
here is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	
component.	CONTAMINATIO	XI.	method	limit/base	current	history1	history2
luid Condition		N		IIIIII/Dase			
The condition of oil is suitable for further service.	Fuel		WC Method		<1.0	<1.0	
	Glycol		WC Method		NEG	NEG	
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m		22	15	
	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		3	3	
	Lead	ppm	ASTM D5185m		2	2	
	Copper	ppm	ASTM D5185m		215	49	
	Tin	ppm	ASTM D5185m		0	0	
	Antimony	ppm	ASTM D5185m		0	2	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		<1	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		20	20	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		97	80	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		130	109	
	Calcium	ppm	ASTM D5185m		3246	2620	
	Phosphorus	ppm	ASTM D5185m		1082	986	
	Zinc	ppm	ASTM D5185m		1233	1081	
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m		5	5	
	Sodium	ppm	ASTM D5185m		4	5	
	Potassium	ppm	ASTM D5185m		0	0	
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624		8.	0.08	
	Sulfation	Abs/.1mm	*ASTM D7415		19.	0.17	
			method	limit/base	current	history1	history2
	FLUID DEGRADA		mounou				
	Oxidation	Abs/.1mm	*ASTM D7414		15.	0.23	



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Certificate L2367

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Contact/Location: JASON SHEA - GRAGRARP