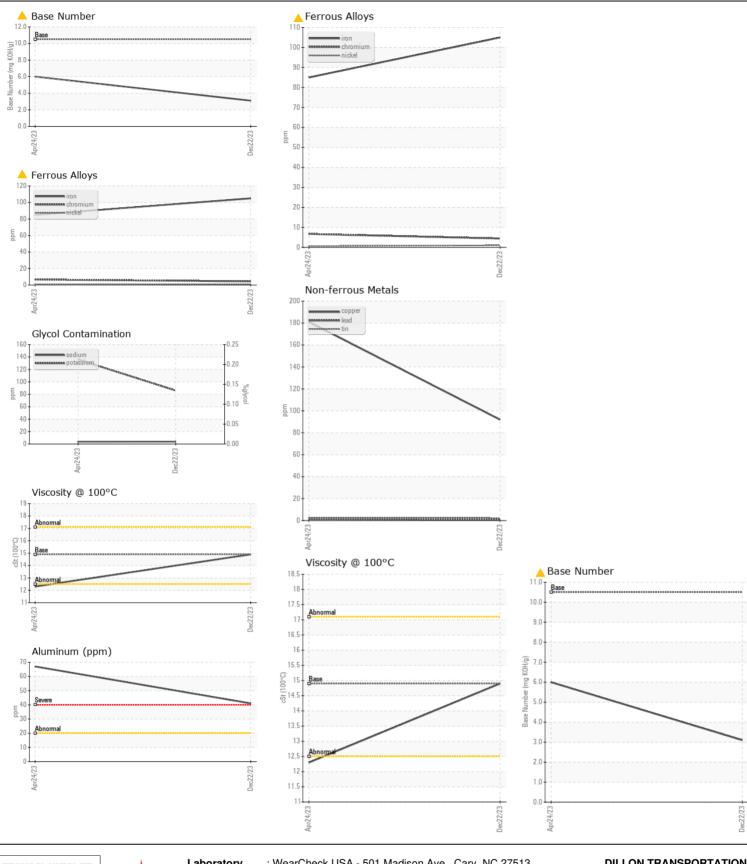


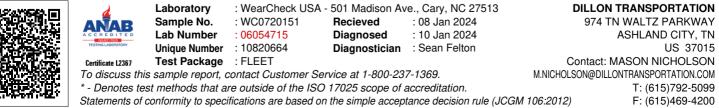
Machine Id

Component Diesel Engine

ROYAL PURPLE MOTOR OIL 15W40 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0720151	WC0719709	
	Sample Date		Client Info		22 Dec 2023	24 Apr 2023	
	Machine Age	mls	Client Info		242759	90595	
	Oil Age	mls	Client Info		100000	50000	
	Filter Age	mls	Client Info		50000	50000	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				ABNORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	🔺 105	85	
	Chromium	ppm	ASTM D5185m	>20	4	7	
	Nickel	ppm	ASTM D5185m	>4	1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>20	41	67	
	Lead	ppm	ASTM D5185m		<1	1	
	Copper	ppm	ASTM D5185m		92	181	
	Tin	ppm	ASTM D5185m		2	3	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	14	6	
	Potassium	ppm	ASTM D5185m	>20	86	136	
	Fuel		WC Method	>5	<1.0	0.3	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	2.9	1.2	
	Nitration	Abs/cm	*ASTM D7624	>20	16.7	12.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	33.8	24.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	3	
	Boron	ppm	ASTM D5185m	0	0	2	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	100	11	54	
	Manganese	ppm	ASTM D5185m		2	3	
	Magnesium	ppm	ASTM D5185m	60	205	848	
	Calcium	ppm			2505	1508	
	Phosphorus	ppm	ASTM D5185m		1017	931	
	Zinc	ppm	ASTM D5185m		1325	1203	
	Sulfur	ppm	ASTM D5185m		3096	2285	
	Oxidation	Abs/.1mm	*ASTM D7414		31.4	24.4	
					▲ 3.1	6.0	
	Base Number (BN)	ma kuela	ASTIVITIZZUL	10 5		60	





Ø

Contact/Location: MASON NICHOLSON - DILASH