

Current

History1

WC0720083 WC0720157 ----

History2

Limit/Abn

## Machine Id **2320** Component **Diesel Engine** Fluid **ROYAL PURPLE MOTOR OIL 15W40 (--- QTS)**

RECOMMENDATION		Test	UOM	Method	Li
	to monitor. Please specify the r next sample.	Sample Number		Client Info	
component make and model with your nex		Sample Date		Client Info	
component make and model with your nex		Machine Age	mls	Client Info	
		Oil Age	mls	Client Info	
		Filter Age	mls	Client Info	
		Oil Changed		Client Info	
		Filter Changed		Client Info	
		Sample Status			
WEAR	<b>.</b>	Iron	ppm	ASTM D5185m	>
		Chromium	ppm	ASTM D5185m	>
All component wear rates are normal.		Nickel	ppm	ASTM D5185m	>
		Titanium	ppm	ASTM D5185m	
		Silver	ppm	ASTM D5185m	>
		Aluminum	ppm	ASTM D5185m	>
		Lead	ppm	ASTM D5185m	>
		Conner	nnm	ASTM D5185m	1

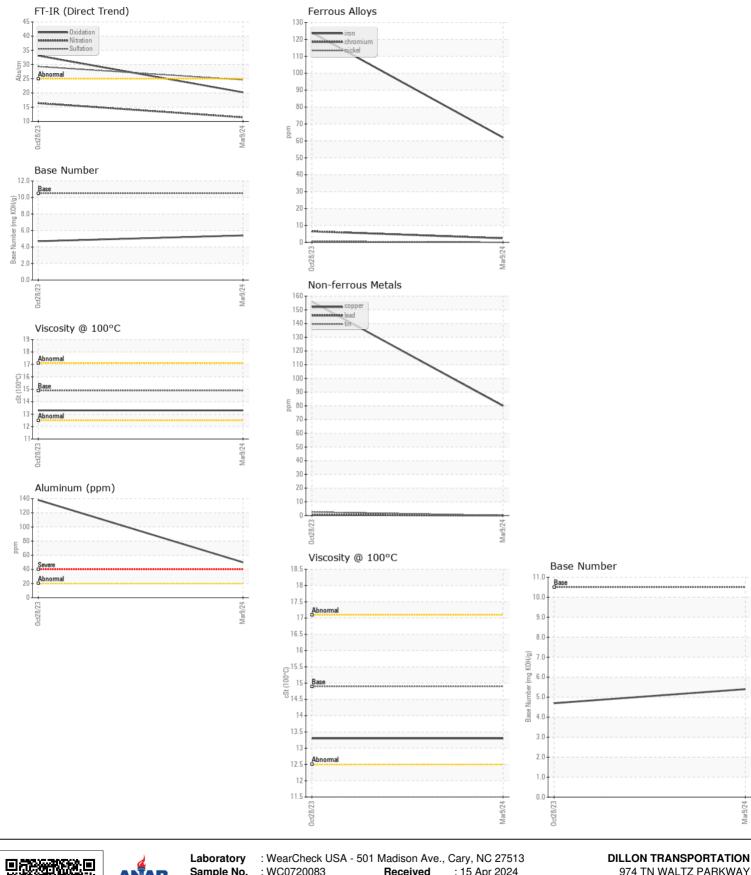
## CONTAMINATION

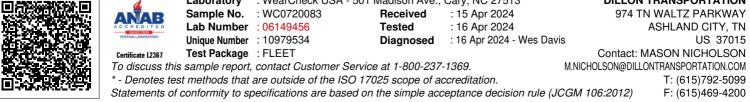
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Sa	ample Date		Client Info		09 Mar 2024	28 Oct 2023		
Ma	achine Age	mls	Client Info		176322	128018		
Oi	l Age	mls	Client Info		50000	50000		
Fil	lter Age	mls	Client Info		50000	50000		
Oi	l Changed		Client Info		Not Changd	Not Changd		
Fil	Iter Changed		Client Info		Changed	Changed		
Sa	ample Status				NORMAL	ABNORMAL		
Iro		ppm	ASTM D5185m	>100	62	124		
	nromium	ppm	ASTM D5185m	>20	2	6		
	ckel	ppm	ASTM D5185m	>4	0	<1		
	tanium	ppm	ASTM D5185m		0	<1		
-	lver	ppm	ASTM D5185m	>3	0	0		
	uminum	ppm	ASTM D5185m	>20	50	138		
	ad	ppm	ASTM D5185m	>40	0	<1		
	opper	ppm	ASTM D5185m	>330	80	156		
Tir		ppm	ASTM D5185m	>15	0	3		
	anadium	ppm	ASTM D5185m		0	<1		
	hite Metal	scalar	*Visual	NONE	NONE	NONE		
Ye	ellow Metal	scalar	*Visual	NONE	NONE	NONE		
Cil	licon	nnm	ASTM D5185m	>25	7	9		
	otassium	ppm ppm	ASTM D5185m	>20	107	290		
-	lel	ppm	WC Method	>5	<1.0	<1.0		
-	ater		WC Method	>0.2	NEG	NEG		
	ycol		WC Method	>0.2	NEG	NEG		
	pot %	%	*ASTM D7844	>3	1.1	1.7		
	tration	Abs/cm	*ASTM D7624	>20	11.4	16.4		
	ulfation	Abs/.1mm	*ASTM D7415	>30	24.6	29.3		
Sil		scalar	*Visual	NONE	NONE	NONE		
	ebris	scalar	*Visual	NONE	NONE	NONE		
	and/Dirt	scalar	*Visual	NONE	NONE	NONE		
	opearance	scalar	*Visual	NORML	NORML	NORML		
	dor	scalar	*Visual	NORML	NORML	NORML		
En	nulsified Water	scalar	*Visual	>0.2	NEG	NEG		
Sc	odium	ppm	ASTM D5185m		4	5		
Bo	oron	ppm	ASTM D5185m	0	0	1		
	arium	ppm	ASTM D5185m	0	0	0		
	olybdenum	ppm	ASTM D5185m	100	10	47		
Ma	anganese	ppm	ASTM D5185m		<1	2		
	agnesium	ppm	ASTM D5185m	60	156	732		
	alcium	ppm	ASTM D5185m	3050	2296	1533		
	nosphorus	ppm	ASTM D5185m	1050	835	908		
Zir		ppm	ASTM D5185m	1200	981	1122		
	ulfur	ppm	ASTM D5185m	12500	2913	1892		
	kidation	Abs/.1mm	*ASTM D7414	>25	20.2	33.1		
	se Number (BN)	mg KOH/g	ASTM D2896	10.5	5.4	4.7		
Vis	sc @ 100°C	cSt	ASTM D445	14.9	13.3	13.3		

## 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.





Contact/Location: MASON NICHOLSON - DILASH Page 2 of 2