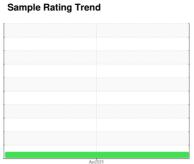


# **OIL ANALYSIS REPORT**



**NORMAL** 



Machine Id 2323 Diesel Engine

**ROYAL PURPLE MOTOR OIL 15W40 (--- QT** 

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

## 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.

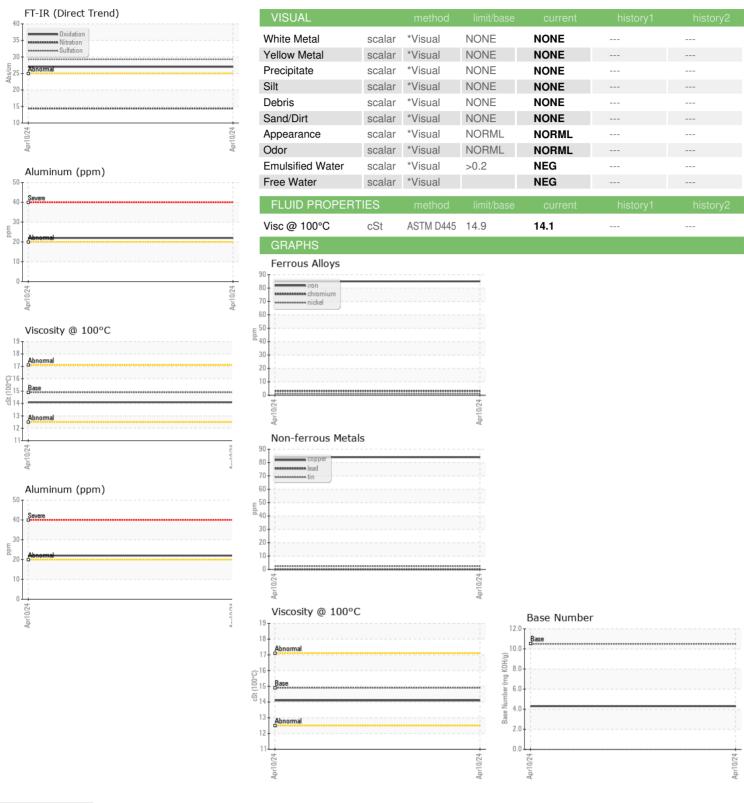
### **Fluid Condition**

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

			April 024			•
S)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0719991		
Sample Date		Client Info		10 Apr 2024		
Machine Age	mls	Client Info		217266		
Dil Age	mls	Client Info		100000		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
- uel		WC Method	>5	<1.0		
Vater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	85		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	1		
itanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Muminum	ppm	ASTM D5185m	>20	22		
.ead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	84		
in	ppm	ASTM D5185m	>15	2		
 /anadium	ppm	ASTM D5185m	710	- <1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	100	14		
Manganese	ppm	ASTM D5185m	100	1		
//agnesium	ppm	ASTM D5185m	60	201		
Calcium	ppm	ASTM D5185m	3050	2399		
Phosphorus	ppm	ASTM D5185m	1050	994		
Zinc	ppm	ASTM D5185m	1200	1198		
Sulfur	ppm	ASTM D5185m	12500	2989		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m	,	2		
Potassium	ppm	ASTM D5185m	>20	56		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.8		
Nitration	Abs/cm	*ASTM D7624	>20	14.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.3		
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.0		
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	4.3		
200 (014)	mg nong	. 10 1 11 1 1 1 1 1 1	10.0	7.0		



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WC0719991 Lab Number : 06174837 Unique Number : 11020890 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2024 **Tested** : 10 May 2024

Diagnosed

: 13 May 2024 - Sean Felton

US 37015 Contact: MASON NICHOLSON M.NICHOLSON@DILLONTRANSPORTATION.COM

**DILLON TRANSPORTATION** 

974 TN WALTZ PARKWAY

ASHLAND CITY, TN

T: (615)792-5099

\* - 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) F: (615)469-4200 Contact/Location: MASON NICHOLSON - DILASH