

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

2324 Component Diesel Engine Fluid ROYAL PURPLE MOTOR OIL 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

Sample Date Client Info 07 Apr 2024 09 Jun 2023 24 Apr 2023 Machine Age mis Client Info 169835 0 84003 Oil Age mis Client Info 50000 100000 50000 Sample Status Client Info Not Changed Abs Changed Not Changed Not Changed GONTAMINATION method Imit/base current history1 History2 Fuel WC Method >5 <1.0 <1.0 0.2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Veramium ppm ASTM 05155m >10.0 86 108 67 Chromium ppm ASTM 05155m >20 3 6 4 164 Silver ppm ASTM 05155m >3 0 0 0 164 Silver ppm ASTM 05155m >20 43 76 <	0)						
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Machine Age mis Client Info 169835 0 84003 Oil Age mis Client Info S0000 100000 50000 Oil Age mis Client Info Not Changed Not Changed Not Changed Sample Status Imit Mose Current HalvoRMAL ABNORMAL NORMAL CONTAMINATION method >5 <1.0 <1.0 0.2 Water WC Method >5 <1.0 <1.0 0.2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG Crommum ppm ASTM 05185m >10.0 86 4 10 Silver ppm ASTM 05185m >3 0 0 0 Silver ppm ASTM 05185m >30 0 0 0 Gromum ppm ASTM 05185m >1 4 3 1 Silver p	Sample Number		Client Info		WC0719987	WC0720115	WC0719710
Oil Age mis Client Info 50000 100000 50000 Oil Changed Client Info Not Changed Not Changed Not Changed Sample Status Imilibase current ABNORMAL NORMAL CONTAMINATION method Imilibase current history2 Fuel WC Method >5 <1.0 <1.0 0.2 Water WC Method >0.2 NEG NEG NEG WetAR METALS method Imilibase current history2 Iron ppm ASTM D5185m >100 86 108 67 Chromium ppm ASTM D5185m >20 3 6 4 Nickel ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 1 1 Copper ppm ASTM D5185m >30 69 191 164 Tin ppm ASTM D5185m >1 4 3 Vanadium ppm ASTM D5185m 0 0 1 3 Cadmium ppm ASTM D5185m 0 0 1 3 R	Sample Date		Client Info		07 Apr 2024	09 Jun 2023	24 Apr 2023
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Sample Status NORMAL ABNORMAL NORMAL ABNORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 0.2 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WeAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185 >20 3 6 4 Okchel ppm ASTM D5185 >20 3 76 45 Aluminum ppm ASTM D5185 >20 43 76 45 Lead ppm ASTM D5185 >30 0 0 1 1 Vanadium ppm ASTM D5185 >30 69 191 164 Tin ppm ASTM D5185 >30 0 <1 0 <tr< th=""><th>Oil Age</th><th>mls</th><th>Client Info</th><th></th><th>50000</th><th>100000</th><th>50000</th></tr<>	Oil Age	mls	Client Info		50000	100000	50000
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Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method Imil/base current history1 history2 Iron ppm ASTM D5185m >100 86 108 67 Chromium ppm ASTM D5185m >20 3 6 4 Nickel ppm ASTM D5185m >44 <1 2 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >40 0 <1 1 Copper ppm ASTM D5185m >330 69 191 164 Tin ppm ASTM D5185m >1 4 3 3 Vanadium ppm ASTM D5185m 0 0 1 3 Barium ppm ASTM D5185m 0 0 1 3 Barium ppm ASTM D5185m 100 17 62	CONTAMINATION	1	method	limit/base	current	history1	history2
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Titanium ppm ASTM D5185m <1 <1 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 43 76 45 Lead ppm ASTM D5185m >20 43 76 45 Copper ppm ASTM D5185m >330 69 191 164 Tin ppm ASTM D5185m >15 1 4 3 Vanadium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>20	3	6	4
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Copper ppm ASTM D5185m >330 69 191 164 Tin ppm ASTM D5185m >15 1 4 3 Vanadium ppm ASTM D5185m >15 1 4 3 Vanadium ppm ASTM D5185m 0 <1	Aluminum	ppm	ASTM D5185m	>20	43	76	45
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Cadmium ppm ASTM D5185m 0 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 1 3 Barium ppm ASTM D5185m 0 0 0 1 3 Barium ppm ASTM D5185m 0 0 0 0 0 0 0 Magnesium ppm ASTM D5185m 100 17 62 56 Magnesium ppm ASTM D5185m 100 17 62 1486 Phosphorus ppm ASTM D5185m 050 242 922 863 Calcium ppm ASTM D5185m 050 1007 991 913 Zinc ppm ASTM D5185m 1250 3113 2441 2262 Sulfur ppm ASTM D5185m >25 11 10 7 Sodium ppm A	Tin	ppm	ASTM D5185m	>15	1	4	3
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Zinc ppm ASTM D5185m 1200 1174 1254 1195 Sulfur ppm ASTM D5185m 12500 3113 2441 2262 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 11 10 7 Sodium ppm ASTM D5185m >25 11 10 7 Sodium ppm ASTM D5185m >20 118 158 94 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844<>3 1 1.5 0.9 Nitration Abs/cm *ASTM D7624<>20 11.1 16.0 11.0 Sulfation Abs/.1mm *ASTM D7415 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25	Calcium	ppm	ASTM D5185m	3050	2254	1652	1486
Sulfur ppm ASTM D5185m 12500 3113 2441 2262 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 11 10 7 Sodium ppm ASTM D5185m >25 11 10 7 Sodium ppm ASTM D5185m >20 118 158 94 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.5 0.9 Nitration Abs/cm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.tmm *ASTM D7624 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 19.1 30.8 23.7	Phosphorus	ppm	ASTM D5185m	1050	1007	991	913
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 11 10 7 Sodium ppm ASTM D5185m >25 11 10 7 Sodium ppm ASTM D5185m >20 118 158 94 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.5 0.9 Nitration Abs/cm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.1mm *ASTM D7615 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	Zinc	ppm	ASTM D5185m	1200	1174	1254	1195
Silicon ppm ASTM D5185m >25 11 10 7 Sodium ppm ASTM D5185m >20 11 10 7 Sodium ppm ASTM D5185m >20 118 158 94 Potassium ppm ASTM D5185m >20 118 158 94 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.5 0.9 Nitration Abs/cm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.1mm *ASTM D7615 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	Sulfur	ppm	ASTM D5185m	12500	3113	2441	2262
Sodium ppm ASTM D5185m 2 4 3 Potassium ppm ASTM D5185m >20 118 158 94 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.5 0.9 Nitration Abs/cm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.1mm *ASTM D7415 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 118 158 94 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.5 0.9 Nitration Abs/cm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.1mm *ASTM D7415 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	Silicon	ppm	ASTM D5185m	>25			
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 1 1.5 0.9 Nitration Abs/cm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.1mm *ASTM D7415 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	Sodium	ppm	ASTM D5185m		2	4	3
Soot % % *ASTM D7844 >3 1 1.5 0.9 Nitration Abs/cm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.1mm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.1mm *ASTM D7415 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	Potassium	ppm	ASTM D5185m	>20	118	158	94
Nitration Abs/cm *ASTM D7624 >20 11.1 16.0 11.0 Sulfation Abs/.tmm *ASTM D7624 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.tmm *ASTM D7414 >25 19.1 30.8 23.7	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 23.9 27.2 23.5 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	Soot %	%	*ASTM D7844	>3	1	1.5	0.9
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	Nitration	Abs/cm	*ASTM D7624	>20	11.1	16.0	11.0
Oxidation Abs/.1mm *ASTM D7414 >25 19.1 30.8 23.7	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	27.2	23.5
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 10.5 5.4 5.4 6.4	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	30.8	23.7
	Base Number (BN)	mg KOH/g	ASTM D2896	10.5	5.4	5.4	6.4



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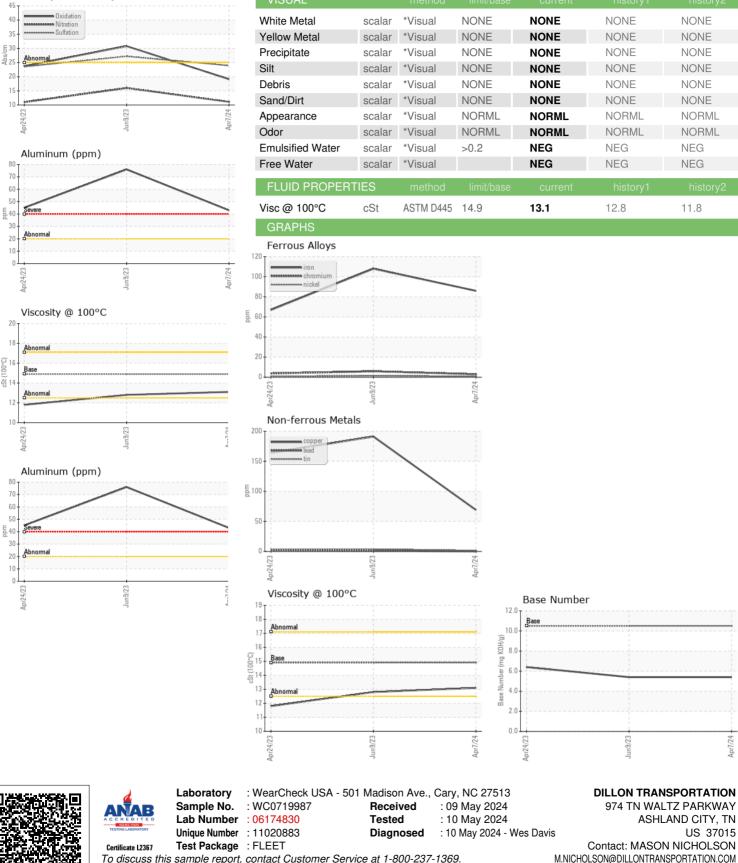
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E. 40 30

> 20 10

FT-IR (Direct Trend)

OIL ANALYSIS REPORT



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)

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