

OIL ANALYSIS REPORT

Audi22 Ned223 Fed224 Mind224

Sample Rating Trend

NORMAL



Machine Id MLU-1 MOTOR

Component Lube System

ROYAL PURPLE SYNFILM GT 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

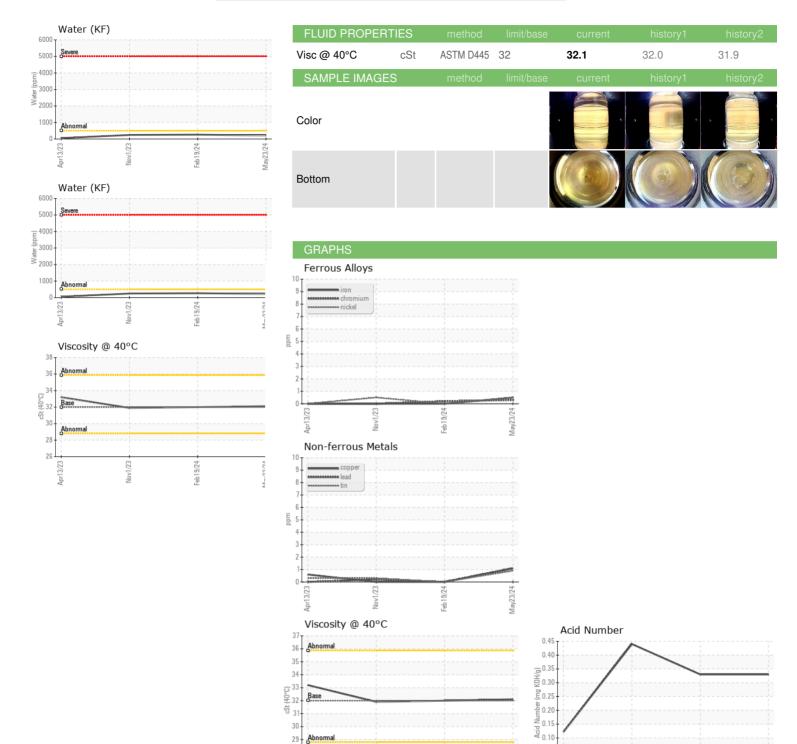
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS			Apr20Z	3 Nov2023	Feb 2024	May2024	
Client Info 23 May 2024 19 Feb 2024 01 Nov 2023	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Client Info	Sample Number		Client Info		RP0039915	RP0036095	RP0037134
Machine Age hrs Client Info 0			Client Info		23 May 2024	19 Feb 2024	01 Nov 2023
Oil Age hrs Client Info N/A Chor		hrs	Client Info		•	0	
Oil Changed Client Info N/A N/A N/A N/A N/A N/A NORMAL NORMAL							
NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 history2 lron ppm ASTM D5185m >20 <1 0 0 0 0 0 0 0 0 0	•				-		
Chromium	Sample Status						
Chromium ppm ASTM D5185m >20 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>20	<1	0	0
Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Silver	Nickel	ppm	ASTM D5185m	>20	<1	0	<1
Aluminum	Titanium	ppm	ASTM D5185m		<1	0	0
Aluminum	Silver	ppm	ASTM D5185m		1	0	0
Lead	Aluminum		ASTM D5185m	>20		0	<1
Copper						0	<1
Tin							
Vanadium ppm ASTM D5185m <1	Tin				<1	0	<1
Cadmium ppm ASTM D5185m <1							
Boron ppm ASTM D5185m 0	Cadmium		ASTM D5185m			0	
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 72 65 82 Calcium ppm ASTM D5185m 0 0 3 Phosphorus ppm ASTM D5185m 5 0 4 Zinc ppm ASTM D5185m 1 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 8 7 5 Sodium ppm ASTM D5185m >15 8 7 5 Sodium ppm ASTM D5185m >15 3 4 Potassium ppm ASTM D5185m >20 <1 0 <1 Water % ASTM D5185m >20 <1 0 <1 Water % ASTM D5185m >15 3 4 Potassium ppm ASTM D5185m >10 <1 0 <1 Water % ASTM D5185m <td< th=""><th>Molybdenum</th><th>ppm</th><th>ASTM D5185m</th><th></th><th><1</th><th>0</th><th>0</th></td<>	Molybdenum	ppm	ASTM D5185m		<1	0	0
Calcium ppm ASTM D5185m 0 0 3 Phosphorus ppm ASTM D5185m 5 0 4 Zinc ppm ASTM D5185m 1 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 8 7 5 Sodium ppm ASTM D5185m 5 3 4 Potassium ppm ASTM D5185m 5 3 4 Potassium ppm ASTM D5185m >20 <1 0 <1 Water % ASTM D5185m >20 <1 0 <1 <1 <1 <1 <1	Manganese	ppm	ASTM D5185m		<1	0	0
Phosphorus ppm ASTM D5185m 5 0 4 Zinc ppm ASTM D5185m 1 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 8 7 5 Sodium ppm ASTM D5185m 5 3 4 Potassium ppm ASTM D5185m >20 <1	Magnesium	ppm	ASTM D5185m		72	65	82
Zinc ppm ASTM D5185m 1 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 8 7 5 Sodium ppm ASTM D5185m 5 3 4 Potassium ppm ASTM D5185m >20 <1 0 <1 Water % ASTM D6304 >0.05 0.021 0.026 0.024 ppm Water ppm ASTM D6304 >500 214 263 245 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.33 0.33 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE	Calcium	ppm	ASTM D5185m		0	0	3
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 8 7 5 Sodium ppm ASTM D5185m 5 3 4 Potassium ppm ASTM D5185m >20 <1 0 <1 Water % ASTM D6304 >0.05 0.021 0.026 0.024 ppm Water ppm ASTM D6304 >500 214 263 245 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.33 0.33 0.34 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Yello	Phosphorus	ppm	ASTM D5185m		5	0	4
Silicon	Zinc	ppm	ASTM D5185m		1	0	0
Sodium ppm ASTM D5185m 5 3 4 Potassium ppm ASTM D5185m >20 <1 0 <1 Water % ASTM D6304 >0.05 0.021 0.026 0.024 ppm Water ppm ASTM D6304 >500 214 263 245 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.33 0.33 0.44 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE VYellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar <td< th=""><th>CONTAMINANTS</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1	Silicon	ppm	ASTM D5185m	>15	8	7	5
Water % ASTM D6304 >0.05 0.021 0.026 0.024 ppm Water ppm ASTM D6304 >500 214 263 245 FLUID DEGRADATION method limit/base current Limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.33 0.33 0.44 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Sodium	ppm	ASTM D5185m		5	3	4
ppm Water ppm ASTM D6304 >500 214 263 245 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHlg ASTM D8045 0.33 0.33 0.44 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE LIGHT NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Debris scalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	<1	0	<1
FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.33 0.33 0.44 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	Water	%	ASTM D6304	>0.05	0.021	0.026	0.024
Acid Number (AN) mg KOH/g ASTM D8045 0.33 0.33 0.44 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	ppm Water	ppm	ASTM D6304	>500	214	263	245
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	Acid Number (AN)	mg KOH/g	ASTM D8045		0.33	0.33	0.44
Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.05NEGNEGNEG	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.05 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.05 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
0.1.39.10.00.1.19	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG Submitted By: Service Manage	Emulsified Water	scalar	*Visual	>0.05	NEG		
	Free Water	scalar	*Visual		NEG	Submitted By: S	ervi ç⊕_M anager



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: RP0039915 Lab Number : 06194081 Unique Number : 11056204 Test Package : IND 2

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024

Tested : 30 May 2024 Diagnosed : 31 May 2024 - Angela Borella

0.05

0.00

ENERGY TRANSFER - LONGVIEW

1010 COX DIARY RD LONGVIEW, TX US 75601

Contact: Service Manager

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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F: