

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

ME-22 ME-22

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

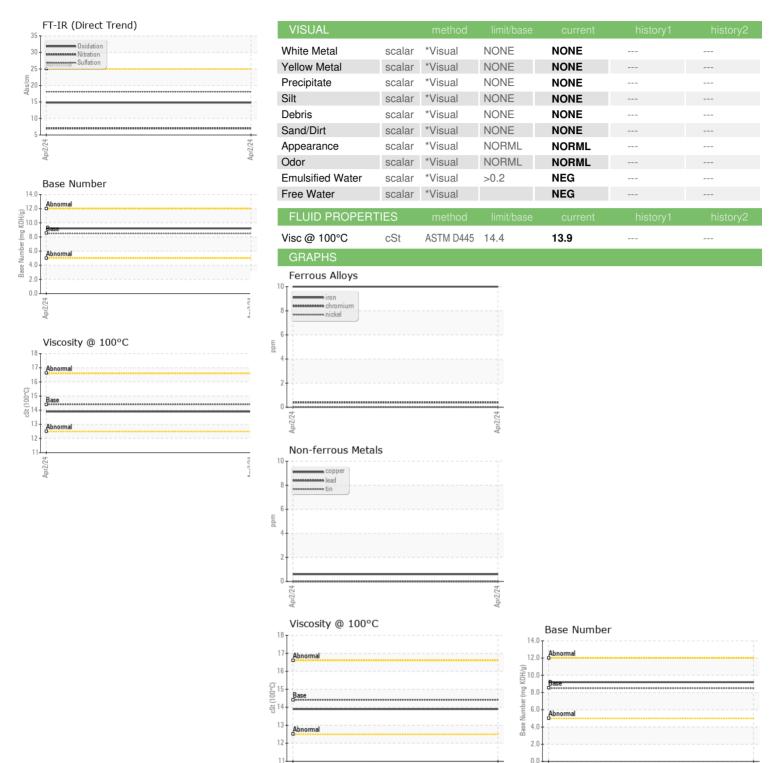
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info 02 Apr 2024					Apr2024		
Sample Number Client Info WC0908959					79.502		
Sample Date Client Info 02 Apr 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		WC0908959		
Oil Changed Oil Changed Client Info Changed Changed Client Info Changed Chang	Sample Date		Client Info		02 Apr 2024		
Contamed Client Info Changed Client Info NORMAL CONTAMINATION Method Imit/base Current history1 history2 Contamination Contamination	Machine Age	hrs	Client Info		6626		
CONTAMINATION	Oil Age	hrs	Client Info		0		
CONTAMINATION	Oil Changed		Client Info		Changed		
Fuel WC Method S5 C1.0 C1.0	Sample Status				NORMAL		
Water WC Method >0.2 NEG Glycol WC Method Imilibase current history1 history2 WEAR METALS method limil/base current history1 history2 Iron ppm ASTM D5185m >100 10 Chromium ppm ASTM D5185m >20 <1	CONTAMINATION	1	method	limit/base	current	history1	history2
WEAR METALS wethod Imiliboase current history1 history2 Iron ppm ASTM D5185m >100 10 Chromium ppm ASTM D5185m >20 <1 Nickel ppm ASTM D5185m >4 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >20 1 Aluminum ppm ASTM D5185m >20 1 Aluminum ppm ASTM D5185m >40 0 Aluminum ppm ASTM D5185m >40 0 Lead ppm ASTM D5185m >40 0 Copper ppm ASTM D5185m 0 0 Cadadium	Fuel		WC Method	>5	<1.0		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 10 Chromium ppm ASTM D5185m >20 <1	Water		WC Method	>0.2	NEG		
Iron	Glycol		WC Method		NEG		
Chromium ppm ASTM D5185m >20 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>100	10		
Titanium	Chromium	ppm	ASTM D5185m	>20	<1		
Silver	Nickel	ppm		>4	0		
Aluminum ppm ASTM D5185m >20 1 Lead ppm ASTM D5185m >40 0 Copper ppm ASTM D5185m >330 <1		ppm			0		
Lead					-		
Copper ppm ASTM D5185m >330 <1 Tin ppm ASTM D5185m >15 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 7 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 57 Manganese ppm ASTM D5185m 100 57 Magnesium ppm ASTM D5185m 450 904 Calcium ppm ASTM D5185m 1150 1050 Phosphorus ppm ASTM D5185m 1350 1234 <td< td=""><td></td><td>ppm</td><td></td><td></td><th></th><td></td><td></td></td<>		ppm					
Tin					-		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 7 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 57 Mangaesium ppm ASTM D5185m 100 57 Magnesium ppm ASTM D5185m 450 904 Calcium ppm ASTM D5185m 3000 1119 Phosphorus ppm ASTM D5185m 1350 1234 Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current							
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 7 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 57 Manganese ppm ASTM D5185m 100 57 Magnesium ppm ASTM D5185m 450 904 Magnesium ppm ASTM D5185m 3000 1119 Calcium ppm ASTM D5185m 1350 1234 Phosphorus ppm ASTM D5185m 1350 1234 Sulfur ppm ASTM D5185m >25 4 Sulfur ppm ASTM D5185m >25				>15	-		
ADDITIVES					-		
Boron	Cadmium	ppm	ASTM D5185m		0		
Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 57 Manganese ppm ASTM D5185m 450 904 Magnesium ppm ASTM D5185m 3000 1119 Calcium ppm ASTM D5185m 3000 1119 Phosphorus ppm ASTM D5185m 1350 1234 Zinc ppm ASTM D5185m 4250 3517 Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >158 <1 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D518	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 100 57 Manganese ppm ASTM D5185m 450 904 Magnesium ppm ASTM D5185m 450 904 Calcium ppm ASTM D5185m 3000 1119 Phosphorus ppm ASTM D5185m 1150 1050 Zinc ppm ASTM D5185m 1350 1234 Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/	Boron	ppm	ASTM D5185m	250	7		
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 450 904 Calcium ppm ASTM D5185m 3000 1119 Phosphorus ppm ASTM D5185m 1150 1050 Zinc ppm ASTM D5185m 1350 1234 Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >158 <1	Barium	ppm	ASTM D5185m	10	0		
Magnesium ppm ASTM D5185m 450 904 Calcium ppm ASTM D5185m 3000 1119 Phosphorus ppm ASTM D5185m 1150 1050 Zinc ppm ASTM D5185m 1350 1234 Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >158 <1	Molybdenum	ppm	ASTM D5185m	100	57		
Calcium ppm ASTM D5185m 3000 1119 Phosphorus ppm ASTM D5185m 1150 1050 Zinc ppm ASTM D5185m 1350 1234 Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >158 <1	Manganese	ppm	ASTM D5185m		<1		
Phosphorus ppm ASTM D5185m 1150 1050 Zinc ppm ASTM D5185m 1350 1234 Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >158 <1 Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method <t< td=""><td>Magnesium</td><td>ppm</td><td>ASTM D5185m</td><td>450</td><th>904</th><td></td><td></td></t<>	Magnesium	ppm	ASTM D5185m	450	904		
Zinc ppm ASTM D5185m 1350 1234 Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >158 <1 Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *AST	Calcium	ppm	ASTM D5185m	3000	1119		
Sulfur ppm ASTM D5185m 4250 3517 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >158 <1 Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8	Phosphorus	ppm	ASTM D5185m	1150	1050		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >158 <1		ppm			-		
Silicon ppm ASTM D5185m >25 4 Sodium ppm ASTM D5185m >158 <1 Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8	Sulfur	ppm	ASTM D5185m	4250	3517		
Sodium ppm ASTM D5185m >158 <1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8	Silicon	ppm	ASTM D5185m	>25	4		
INFRA-RED		ppm	ASTM D5185m	>158	<1		
Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8	Potassium	ppm	ASTM D5185m	>20	0		
Nitration Abs/cm *ASTM D7624 >20 7.0 Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8	Soot %	%	*ASTM D7844	>3	0.2		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.8	Nitration	Abs/cm	*ASTM D7624	>20	7.0		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 8.5 9.2	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.2		



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06141044 Unique Number : 10965852

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0908959

Received **Tested** Diagnosed

: 08 Apr 2024 : 09 Apr 2024

: 09 Apr 2024 - Wes Davis

COVIA - GUION - 025 421 MAIN STREET GUION, AR US 72540 Contact: DANIEL DELGADO daniel.delgado@coviacorp.com

Test Package : CONST (Additional Tests: TBN) Certificate 12367 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)

Report Id: COVGUI [WUSCAR] 06141044 (Generated: 04/09/2024 08:42:15) Rev: 1

Contact/Location: DANIEL DELGADO - COVGUI

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