

OIL ANALYSIS REPORT

Sample Rating Trend







10-560
Component
Gasoline Engine
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Machine Id

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

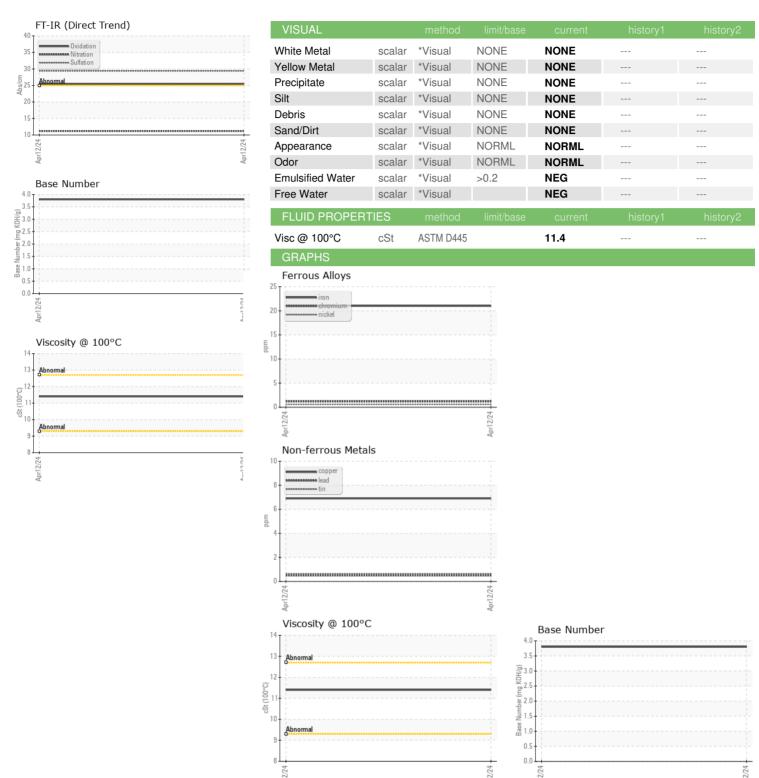
Fluid Condition

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

SAMPLE INFORMATION					Apr2024		
Sample Number Client Info WC0766494							
Sample Date Client Info 12 Apr 2024 Machine Age hrs Client Info 0	SAMPLE INFORM	MATION	method				history2
Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Client Info Changed Sample Status NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >4.0 <1.0 Water WC Method >0.2 NEG Glycol WC Method NEG WEAR METALS method limil/base current history1 history2 Iron ppm ASTM D5185m >150 21 Chromium ppm ASTM D5185m >20 1 Silver ppm ASTM D5185m >2 0 Silver ppm ppm ASTM D5185m >40 8	Sample Number		Client Info		WC0766494		
Oil Age hrs Client Info 0	Sample Date		Client Info		12 Apr 2024		
Contamped Client Info Normal Changed Contamped Contamp	Machine Age	hrs	Client Info		0		
CONTAMINATION method limit/base current history1 history2	Oil Age	hrs	Client Info		0		
CONTAMINATION method limit/base current history1 history2	Oil Changed		Client Info		Changed		
Fuel	Sample Status				NORMAL		
Water WC Method >0.2 NEG	CONTAMINATION	V	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>4.0	<1.0		
WEAR METALS	Water		WC Method	>0.2	NEG		
Iron	Glycol		WC Method		NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>150	21		
Titanium	Chromium	ppm	ASTM D5185m	>20	1		
Silver	Nickel	ppm		>5	<1		
Aluminum ppm ASTM D5185m >40 8 Lead ppm ASTM D5185m >50 <1	Titanium	ppm	ASTM D5185m		23		
Lead	Silver	ppm	ASTM D5185m	>2	0		
Copper ppm ASTM D5185m >155 7 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>40	8		
Tin	Lead	ppm					
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 24 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 170 Magnesium ppm ASTM D5185m 12221 Calcium ppm ASTM D5185m 1260 Phosphorus ppm ASTM D5185m 1260 Zinc ppm ASTM D5185m 3556 Sulfur ppm ASTM D5185m >30 12 CONTAMINANTS method limit/base current					-		
Cadmium ppm ASTM D5185m <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 24 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 170 Calcium ppm ASTM D5185m 2221 Phosphorus ppm ASTM D5185m 1059 Zinc ppm ASTM D5185m 1260 Sulfur ppm ASTM D5185m 3556 CONTAMINANTS method limit/base current history1 history2 Sodium ppm ASTM D5185m >400 3 <td></td> <td></td> <td></td> <td>>10</td> <td></td> <td></td> <td></td>				>10			
ADDITIVES		ppm					
Boron		ppm	ASTM D5185m		<1		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 170 Magnesium ppm ASTM D5185m 170 Calcium ppm ASTM D5185m 2221 Phosphorus ppm ASTM D5185m 1059 Zinc ppm ASTM D5185m 1260 Sulfur ppm ASTM D5185m 3556 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 12 Sodium ppm ASTM D5185m >20 15 Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D	Boron	ppm	ASTM D5185m		24		
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Sodium ppm ASTM D5185m >400 3 Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 Nitration Abs/cm *ASTM D7624 >20 11.2 Sulfation Abs/.1mm *ASTM D7415 >30 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.4						history1	history2
Potassium ppm ASTM D5185m >20 15 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 0.5 Nitration Abs/cm *ASTM D7624 >20 11.2 Sulfation Abs/.1mm *ASTM D7415 >30 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.4							
INFRA-RED							
Soot % % *ASTM D7844 0.5 Nitration Abs/cm *ASTM D7624 >20 11.2 Sulfation Abs/.1mm *ASTM D7415 >30 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.4		ppm			15		
Nitration Abs/cm *ASTM D7624 >20 11.2 Sulfation Abs/.1mm *ASTM D7615 >30 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.4	INFRA-RED			limit/base		history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 29.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.4							
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 25.4							
Oxidation Abs/.1mm *ASTM D7414 >25 25.4	Sulfation	Abs/.1mm	*ASTM D7415	>30	29.4		
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 3.8	Oxidation	Abs/.1mm	*ASTM D7414	>25	25.4		
	Base Number (BN)	mg KOH/g	ASTM D2896		3.8		



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06155093 Unique Number : 10990516

: WC0766494

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

: 19 Apr 2024 **Tested** : 24 Apr 2024 Diagnosed

: 24 Apr 2024 - Jonathan Hester

Contact: BEN CALDWELL

kevin.marson@wearcheck.com T: (918)728-5749

5601 S 122ND E AVE

MANHATTAN ROAD AND BRIDGE

Certificate 12367

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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: MANTUL [WUSCAR] 06155093 (Generated: 04/24/2024 12:59:55) Rev: 1

Submitted By: RICHARD PUGH

TULSA, OK

US 74146