

OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
1467
Component
Rear Differential
Fluid
GEAR OIL SAE 75W90

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 75 90 gear oil)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

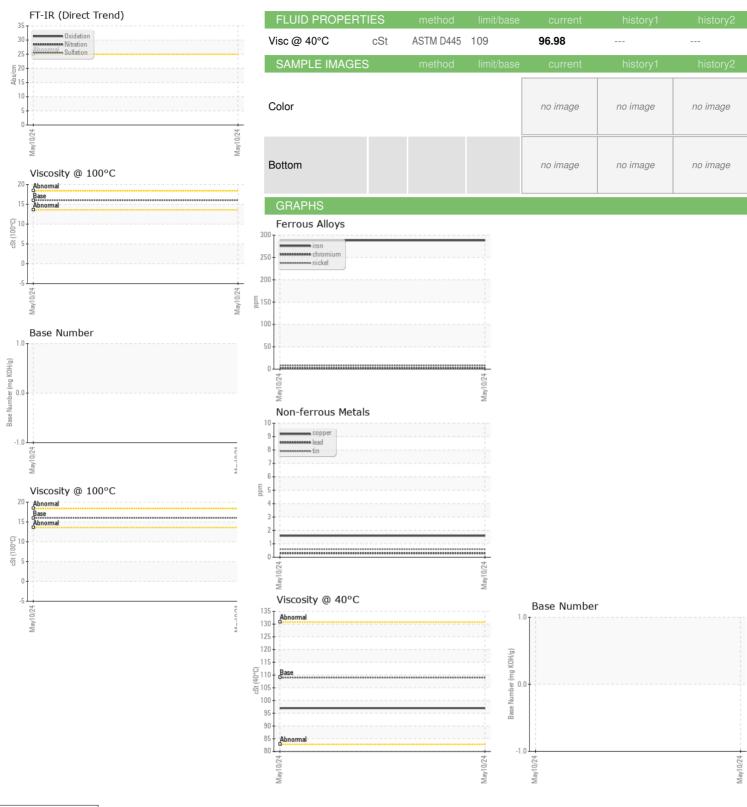
The condition of the fluid is acceptable for the time in service.

Sample Number Client Info WC0858147	(CAL)						
Sample Number Client Info WC0858147	(GAL)				May2U24		
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		WC0858147		
Dil Changed	Sample Date		Client Info		10 May 2024		
Contained Client Info Changed Contained Contained Normal Contained Contain	Machine Age	hrs	Client Info		12847		
Contained Client Info Changed Contained Cont	Oil Age	hrs	Client Info		3300		
NORMAL	Oil Changed		Client Info		Changed		
Water WC Method J.2 NEG	Sample Status				_		
WEAR METALS	CONTAMINATIO	N	method	limit/base	current	history1	history2
Chromium	Water		WC Method	>.2	NEG		
Description	WEAR METALS		method	limit/base	current	history1	history2
Chromium	Iron	maa	ASTM D5185m	>1200	288		
Nickel	Chromium						
ASTM D5185m SATM D5185m	Nickel				_		
ASTM D5185m D							
Astropage	Silver			- 1			
Lead	S S.			~3 0	-		
Copper					_		
Tin							
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 400 48 Barium ppm ASTM D5185m 200 <1 Molybdenum ppm ASTM D5185m 12 1 Manganese ppm ASTM D5185m 12 5 Magnesium ppm ASTM D5185m 12 5 Calcium ppm ASTM D5185m 150 22 Phosphorus ppm ASTM D5185m 125 14 Sulfur ppm ASTM D5185m 125 14 CONTAMINANTS method limit/base current history1 <td>• •</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>	• •				_		
ADDITIVES				>5			
ADDITIVES							
Boron		ррпп					
Barium						history1	history2
Molybdenum ppm ASTM D5185m 12 1 Manganese ppm ASTM D5185m 4 Magnesium ppm ASTM D5185m 12 5 Calcium ppm ASTM D5185m 150 22 Phosphorus ppm ASTM D5185m 125 14 Zinc ppm ASTM D5185m 125 14 Sulfur ppm ASTM D5185m 22500 19394 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >230 49 Sodium ppm ASTM D5185m >20 4 Potassium ppm ASTM D5185m >20 4 VISUAL method limit/base current		ppm					
Manganese ppm ASTM D5185m 4 Magnesium ppm ASTM D5185m 12 5 Calcium ppm ASTM D5185m 150 22 Phosphorus ppm ASTM D5185m 1650 609 Zinc ppm ASTM D5185m 125 14 Sulfur ppm ASTM D5185m 22500 19394 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >230 49 Sodium ppm ASTM D5185m >20 4 Potassium ppm ASTM D5185m >20 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE		ppm					
Magnesium ppm ASTM D5185m 12 5 Calcium ppm ASTM D5185m 150 22 Phosphorus ppm ASTM D5185m 1650 609 Zinc ppm ASTM D5185m 125 14 Sulfur ppm ASTM D5185m 22500 19394 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >230 49 Sodium ppm ASTM D5185m >20 4 Potassium ppm ASTM D5185m >20 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual	•	ppm		12	-		
Calcium ppm ASTM D5185m 150 22 Phosphorus ppm ASTM D5185m 1650 609 Zinc ppm ASTM D5185m 125 14 Sulfur ppm ASTM D5185m 22500 19394 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >230 49 Sodium ppm ASTM D5185m >20 4 Potassium ppm ASTM D5185m >20 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE<	-	ppm	ASTM D5185m		-		
Phosphorus ppm ASTM D5185m 1650 609 Zinc ppm ASTM D5185m 125 14 Sulfur ppm ASTM D5185m 22500 19394 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 230 49 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE </td <td>Magnesium</td> <td>ppm</td> <td></td> <td>12</td> <td></td> <td></td> <td></td>	Magnesium	ppm		12			
Zinc	Calcium	ppm	ASTM D5185m	150	22		
Sulfur ppm ASTM D5185m 22500 19394 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >230 49 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silt scalar *Visual NONE	Phosphorus	ppm	ASTM D5185m	1650	609		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >230 49 Sodium ppm ASTM D5185m 0 Potassium ppm ASTM D5185m >20 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Vi	Zinc	ppm	ASTM D5185m	125	14		
Silicon ppm ASTM D5185m >230 49 Sodium ppm ASTM D5185m 0	Sulfur	ppm	ASTM D5185m	22500	19394		
Sodium	CONTAMINANTS	8	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 4 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Silicon	ppm	ASTM D5185m	>230	49		
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual >.2 NEG Emulsified Water scalar *Visual >.2 NEG	Sodium	ppm	ASTM D5185m		0		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Potassium	ppm	ASTM D5185m	>20	4		
Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORML Appearance scalar *Visual NORML NORML Dodor scalar *Visual >.2 NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	White Metal	scalar					
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >.2 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>.2	NEG		
	Free Water	scalar	*Visual		NEG		

Submitted By: CODY COLON



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WC0858147

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06178056 **Tested** Unique Number : 11029382

Received : 13 May 2024 : 16 May 2024 Diagnosed

: 17 May 2024 - Jonathan Hester

Apple Valley Waste - Hometown Location 155 Airport Road Selinsgrove, PA US 17870

Contact: Service Manager

Test Package : CONST (Additional Tests: FT-IR, KV100, TBN) 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: AVWHOM [WUSCAR] 06178056 (Generated: 05/17/2024 10:00:53) Rev: 1

Submitted By: CODY COLON

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