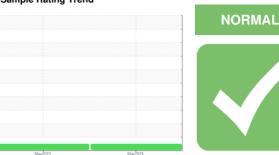


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BCESD 3 - LIVER POOL T1504

Rear Differential

Fluid

GEAR OIL SAE 80W140 (--- QTS)

DIAGNOSIS

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.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

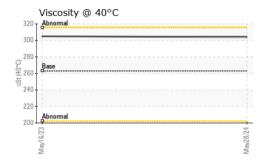
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2	Sample Number Sample Date Machine Age ml Oil Age ml Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Vanadium pp Vanadium pp Molybdenum pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp	om om om om om om om om	Client Info Client Info Client Info Client Info Client Info Client Info Method WC Method METHOD ASTM D5185m	limit/base >.2 limit/base >.500 >10 >10 >10 >10	current WC0941945 28 May 2024 0 0 N/A NORMAL current 11 <1 0 0 0 0 0 0 0 0 0 0 0	WC0792378 16 May 2023 0 0 N/A NORMAL history1 NEG history1 18 0 0 0 < 0 < 0 < 0 < 1 0	history2 history2
Sample Number Client Info WC0941945 WC0792378	Sample Number Sample Date Machine Age ml Oil Age ml Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Vanadium pp Vanadium pp Molybdenum pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp	om om om om om om om om	Client Info Client Info Client Info Client Info Client Info Client Info Method WC Method METHOD ASTM D5185m	limit/base >.2 limit/base >500 >10 >10 >10 >10	WC0941945 28 May 2024 0 0 N/A NORMAL current NEG current 11 <1 0 0 0 0 0 0 0 0 0 0 0	WC0792378 16 May 2023 0 0 N/A NORMAL history1 NEG history1 18 0 0 0 < 0 < 0 < 0 < 1 0	history2 history2
Sample Number Client Info WC0941945 WC0792378 Sample Date Client Info 28 May 2024 16 May 2023 Machine Age mls Client Info 0 0 0 Client Info 0 0 0 Client Info N/A N/A N/A Sample Status Client Info N/A	Sample Number Sample Date Machine Age ml Oil Age ml Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Vanadium pp Vanadium pp Molybdenum pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp	om om om om om om om om	Client Info Client Info Client Info Client Info Client Info Client Info Method WC Method METHOD ASTM D5185m	limit/base >.2 limit/base >500 >10 >10 >10 >10	WC0941945 28 May 2024 0 0 N/A NORMAL current NEG current 11 <1 0 0 0 0 0 0 0 0 0 0 0	WC0792378 16 May 2023 0 0 N/A NORMAL history1 NEG history1 18 0 0 0 < 0 < 0 < 0 < 1 0	history2 history2
Sample Date Client Info 28 May 2024 16 May 2023 Machine Age mls Client Info 0 0 0 Client Info 0 0 0 0 Client Info 0 0 0 0 Client Info N/A	Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium Pp Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Silicon Sodium Pp So	om om om om om om om om	Client Info Client Info Client Info Client Info Client Info Method WC Method Method ASTM D5185m	>.2 limit/base >500 >10 >10 >10 >10 >10 >25 >25 >25 >100 >10	28 May 2024 0 0 N/A NORMAL current 11 <1 0 0 0 0 0 0 0 0 0 0 0 0 0	16 May 2023 0 0 N/A NORMAL history1 NEG history1 18 0 0 0 < 0 < 1 0 < 1 0	history2 history2
Machine Age mls Client Info 0 0	Machine Age mil Oil Age Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Aluminum pp Lead pp Copper pp Tin pp Vanadium pp Cadmium pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Sulfur pp Sodium pp Sodium pp	om om om om om om om om om	Client Info Client Info Client Info Client Info Client Info MC Method METHOD ASTM D5185m	>.2 limit/base >500 >10 >10 >10 >10 >10 >25 >25 >25 >100 >10	0 0 N/A N/A NORMAL current 11 <1 0 0 0 0 0 0 0 0 0 0 0	0 0 N/A NORMAL history1 NEG history1 18 0 0 0 0 0 <1 0 <1	history2 history2
Oil Age mls Client Info N/A	Oil Age mil Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron pp Chromium pp Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Vanadium pp Cadmium pp Barium pp Molybdenum pp Manganese pp Magnesium pp Manganese pp Magnesium pp Calcium pp Sulfur pp Sulfur pp Sulfur pp Sulfur pp Sodium pp Sodium pp	om om om om om om om om	Client Info Client Info Client Info method WC Method METHOD ASTM D5185m	>.2 limit/base >500 >10 >10 >10 >10 >10 >25 >25 >25 >100 >10	0 N/A N/A NORMAL current NEG current 11 <10 0 0 0 0 0 0 0 0 0 0 0 0	0 N/A NORMAL history1 NEG history1 18 0 0 0 0 <	history2 history2
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Chromium	Chromium Nickel Pp Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium Pp Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Sulfur Pp Sodium Pp Sodium Pp Sodium Pp Sodium	om o	ASTM D5185m ASTM D5185m	>10 >10 >25 >25 >25 >100 >10	<1 0 0 0 0 0 0 0 0	0 0 0 0 0 <1 0 <1	
Nickel	Nickel pp Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp Sulfur pp Sodium pp	om	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>10 >25 >25 >100 >10	0 0 0 0 0 0 0	0 0 0 <1 0 <1 0	
Titanium ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 0 <1 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >10 0 <1 Tin ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m >10 0 0 Vanadium ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 20 0 0	Titanium pp Silver pp Aluminum pp Lead pp Copper pp Tin pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp Sulfur pp Sodium pp	om om om om om om	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >25 >100 >10	0 0 0 0 0 0	0 0 <1 0 <1 0	
Silver	Silver pp Aluminum pp Lead pp Copper pp Tin pp Vanadium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp Sulfur pp Sodium pp	om om om om om	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >100 >10	0 0 0 0 0	0 <1 0 <1 0 <1 0	
Aluminum	Aluminum pp Lead pp Copper pp Tin pp Vanadium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp	om om om om	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >100 >10	0 0 0 0	<1 0 <1 0	
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Copper ppm ASTM D5185m >100 0 <1	Copper Tin pp Vanadium pp Cadmium pp ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp	om om om	ASTM D5185m ASTM D5185m ASTM D5185m	>10	0	0	
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ADDITIVES	ADDITIVES Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp		method _	limit/baco		0	
Boron	Boron pp Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp			milli/base	current	historv1	historv2
Barium	Barium pp Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Zinc pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp	nm					•
Molybdenum ppm ASTM D5185m 12 0 <1	Molybdenum pp Manganese pp Magnesium pp Calcium pp Phosphorus pp Zinc pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp				-		
Manganese ppm ASTM D5185m <1	Manganese pp Magnesium pp Calcium pp Phosphorus pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp				-		
Magnesium ppm ASTM D5185m 12 2 2 Calcium ppm ASTM D5185m 150 24 28 Phosphorus ppm ASTM D5185m 1650 954 962 Zinc ppm ASTM D5185m 125 7 10 Sulfur ppm ASTM D5185m 22500 24196 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 2 3 Sodium ppm ASTM D5185m >20 0 <1 Potassium ppm ASTM D5185m >20 0 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE	Magnesium pp Calcium pp Phosphorus pp Zinc pp Sulfur pp CONTAMINANTS Silicon pp Sodium pp				-		
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Sulfur ppm ASTM D5185m 22500 24196 25056 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 2 3 Sodium ppm ASTM D5185m >20 0 <1 2 Potassium ppm ASTM D5185m >20 0 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE	Sulfur pp CONTAMINANTS Silicon pp Sodium pp						
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Silicon ppm ASTM D5185m >75 2 3 Sodium ppm ASTM D5185m <1	Silicon pp Sodium pp	JIII					
Sodium ppm ASTM D5185m <1	Sodium pp					<u> </u>	history2
Potassium ppm ASTM D5185m >20 0 <1 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE				>75			
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE	Determina	om .	ASTM D5185m		<1	2	
White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE	Potassium pp	om .	ASTM D5185m	>20	0	<1	
Yellow Metalscalar*VisualNONENONENONEPrecipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONE	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONESiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONE	White Metal sc	calar	*Visual	NONE	NONE	NONE	
Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE	Yellow Metal sc		*Visual	NONE	NONE	NONE	
Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONE	Precipitate sc	calar	*Visual	NONE	NONE	NONE	
Sand/Dirt scalar *Visual NONE NONE NONE	Silt sc		*Visual	NONE	NONE	NONE	
	Debris sc	calar	*Visual	NONE	NONE	NONE	
Appearance applies *Viguel NODAII NODAII	Sand/Dirt sc	calar calar		NONE		NONE	
Appearance scalar visual NORIVIL NORIVIL NORIVIL	Appearance sc	calar calar calar	*Visual	INOINL	NONE	INOINE	
Odor scalar *Visual NORML NORML NORML		calar calar calar calar	*Visual *Visual	NORML	NONE NORML	NORML	
Emulsified Water scalar *Visual >.2 NEG NEG		calar calar calar calar calar	*Visual	NORML	NORML	NORML	
	Free Water sc	calar calar calar calar calar calar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	

Contact/Location: Natalie Perrone - SIDFRI

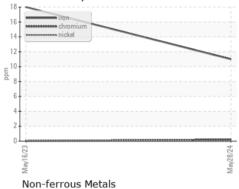


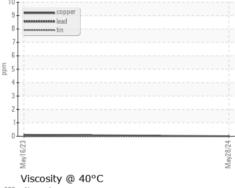
OIL ANALYSIS REPORT



FLUID PROPER	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	263	304	305	
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						

Ferrous Alloys





Viscosity @ 40°C	
Abnormal Abnormal	-
300	
280	
(2-0) 260 Base Base Base Base Base Base Base Base	
240	
220	
Abnormal	-
May16/23	Way20/24





Sample No. : WC0941945 Lab Number : 06194442 Unique Number : 11056565 Test Package : CONST

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

: 29 May 2024 Tested : 31 May 2024 : 31 May 2024 - Wes Davis Diagnosed

4401 REX RD FRIENDSWOOD, TX US 77546 Contact: Natalie Perrone

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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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