

OIL ANALYSIS REPORT

Sample Rating Trend



Area NWW GREENWOOD DT820 Component

Component Rear Differential Fluid SHELL SPIRAX HD 75W90 (3 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

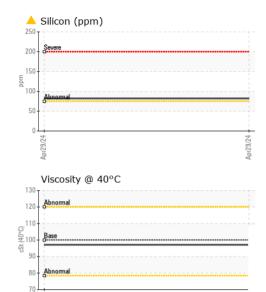
The condition of the oil is acceptable for the time in service.

Sample Date Client Info 29 Apr 2024 Machine Age mis Client Info 111673 Oil Age mis Client Info 0 Oil Changed Client Info 0 Sample Status method limit/base current history1 history2 Water WC Method >.2 NEG WEAR METALS method limit/base current history1 history2 Kornonium ppm ASTM D5165m >10 5 Nickel ppm ASTM D5165m >25 <1 Aluminum ppm ASTM D5165m >25 <1 Aluminum ppm ASTM D5165m >25 <1 Aluminum ppm ASTM D5165m >20 Aluminum	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
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Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>.2NEGFree Waterscalar*VisualImage: Comparison of the state of the s	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE	2 6 28 1336 12 29049 current & 82 3 2 2 current NONE NONE NONE NONE NONE	 history1 history1 history1	 history2 history2
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual MEG	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	2 6 28 1336 12 29049 current & 82 3 2 2 current NONE NONE NONE NONE NONE NONE NONE	 history1 history1 history1	 history2 history2 history2
Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 limit/base NONE NONE NONE NONE NONE	2 6 28 1336 12 29049 current & 82 3 2 2 current NONE NONE NONE NONE NONE NONE NONE	 history1 history1 	history2 history2 history2
Free Water scalar *Visual NEG	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 >20 Iimit/base NONE NONE NONE NONE NONE	2 6 28 1336 12 29049 current ▲ 82 3 2 current NONE NONE NONE NONE NONE NONE NONE NON	history1 history1	 history2 history2 history2
	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 20 Imit/base NONE NONE NONE NONE NONE NONE NONE	2 6 28 1336 12 29049 current	 history1 history1 	 history2 history2
45:42) Rev: 1 Submitted By: James Threatt	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>75 20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	2 6 28 1336 12 29049 current ▲ 82 3 2 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2

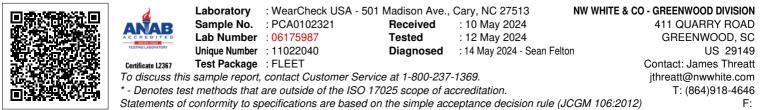


Apr29/24

OIL ANALYSIS REPORT



FLUID PROPE		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	97.1		
SAMPLE IMAG	GES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Alloys	ls		Apr29/24			
Apr29/24			Apr29/24			
Viscosity @ 40°C						
Abnormal			-			
5 - 0 -						
5 - Base 0 - Base 5						
5						
5-						
0 - Abnormal						
Apr29/24			Apr29/24			



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Submitted By: James Threatt

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