

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 2126971 Component Transmission Fluid NOT GIVEN (--- QTS)

DIAGNOSIS

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 fluid.

Fluid Condition

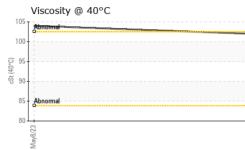
The condition of the fluid is acceptable for the time in service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0101674	PCA0092852		
Sample Date		Client Info		15 Aug 2023	08 May 2023		
Machine Age	mls	Client Info		38761	18735		
Oil Age	mls	Client Info		38761	18735		
Oil Changed		Client Info		Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Water		WC Method	>0.1	NEG	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	30	20		
Chromium	ppm	ASTM D5185m	>10	<1	<1		
Nickel	ppm	ASTM D5185m		<1	<1		
Titanium	ppm	ASTM D5185m		0	0		
Silver	ppm	ASTM D5185m		0	0		
Aluminum	ppm	ASTM D5185m	>50	<1	0		
Lead	ppm	ASTM D5185m	>50	<1	0		
Copper	ppm	ASTM D5185m	>200	25	10		
Tin	ppm	ASTM D5185m	>10	0	0		
Vanadium	ppm	ASTM D5185m		<1	<1		
Cadmium	ppm	ASTM D5185m		0	<1		
ADDITIVES		method	limit/base	current	history1	history2	
_							
Boron	ppm	ASTM D5185m		0	0		
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m		0	0		
Barium							
	ppm	ASTM D5185m		0	0		
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	0 <1		
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 17	0 <1 11		
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 17 0	0 <1 11 1	 	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 17 0 870	0 <1 11 1 367	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 17 0 870 689	0 <1 11 1 367 269	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 17 0 870 689 0	0 <1 11 1 367 269 3	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 17 0 870 689 0 5378	0 <1 11 367 269 3 2090		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>50	0 <1 17 0 870 689 0 5378 current	0 <1 11 1 367 269 3 2090 history1		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>50	0 <1 17 0 870 689 0 5378 current 46	0 <1 11 367 269 3 2090 history1 17		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>50	0 <1 17 0 870 689 0 5378 0 5378 current 46 2	0 <1 11 367 269 3 2090 history1 17 9		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	>50 >20	0 <1 17 0 870 689 0 5378 current 46 2 0	0 <1 11 367 269 3 2090 history1 17 9 1	 history2 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	>50 >20 limit/base	0 <1 17 0 870 689 0 5378 current 46 2 0 0	0 <1 11 1 367 269 3 2090 history1 17 9 1 1 history1	 history2 history2	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>50 >20 limit/base NONE	0 <1 17 0 870 689 0 5378 current 46 2 0 0 current NONE	0 <1 11 367 269 3 2090 history1 17 9 1 1 9 1 history1 NONE	 history2 history2	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m Yisual	>50 >20 limit/base NONE NONE	0 <1 17 0 870 689 0 5378 <u>current</u> 46 2 0 0 <u>current</u> NONE NONE	0 <1 11 367 269 3 2090 history1 17 9 1 17 9 1 history1 NONE NONE NONE	 history2 history2 history2	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m Yisual	>50 >20 limit/base NONE NONE NONE	0 <1 17 0 870 689 0 5378 <u>current</u> 46 2 0 0 <u>current</u> NONE NONE NONE	0 <1 11 367 269 3 2090 history1 17 9 1 17 9 1 1 <i>history1</i> <i>history1</i> <i>NONE</i> <i>NONE</i> <i>NONE</i>	 history2 history2 history2	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Yuisual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE	0 <1 17 0 870 689 0 5378 <u>current</u> 46 2 0 0 <u>current</u> NONE NONE NONE NONE LIGHT	0 <1 11 367 269 3 2090 history1 17 9 1 17 9 1 1 NONE NONE NONE NONE NONE NONE	 history2 history2 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE	0 <1 17 0 870 689 0 5378 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> NONE NONE NONE LIGHT NONE	0 <1 11 367 269 3 2090 history1 17 9 1 17 9 1 1 NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN 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 *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE	0 <1 17 0 870 689 0 5378 current 46 2 0 current 46 2 0 0 <i>current</i> kone LIGHT NONE LIGHT NONE NONE	0 <1 11 1 367 269 3 2090 history1 17 9 1 17 9 1 17 9 1 17 9 1 1 NONE NONE NONE NONE NONE NONE NONE	history2 history2 history2	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN 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 Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE	0 <1 17 0 870 689 0 5378 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 46 2 0 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 <i>current</i> 40 (<i>current</i> 40 </i>	0 <1 11 1 367 269 3 2090 history1 17 9 1 17 9 1 17 9 1 1 NONE NONE NONE NONE NONE NONE NONE	history2 history2	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 220 Iimit/base NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 <1 17 0 870 689 0 5378 <u>current</u> 46 2 0 <u>current</u> 46 2 0 0 <u>current</u> NONE NONE NONE LIGHT NONE LIGHT NONE NONE NONE	0 <1 11 367 269 3 2090 history1 17 9 1 17 9 1 17 9 1 1 NONE NONE NONE NONE NONE NONE NONE		



OIL ANALYSIS REPORT

FLUID PROPERTIES method limit/base



		Visc @ 40°C	cSt	ASTM D445	iiiii/base	102	104	
		SAMPLE IMA	GES	method	limit/base	current	history1	history2
	23	Color				no image	no image	no image
	Aug15/23	Bottom				no image	no image	no image
		GRAPHS						
		Ferrous Alloys			Aug15/23			
		Non-ferrous Met	tals					
		Viscosity @ 40°	C		Aug15/23			
		(1-0)+ 85 85 80 62/80 mmal 80 62/80 mmal			Aug15/23 +			
Certificate L2367 To discuss this s * - Denotes test	methods that		Recieve Diagnos Diagnos rvice at 1-0 17025 sci	ed : 11 E sed : 15 E stician : Jona 800-237-1369 ope of accredi	ry, NC 27510 Dec 2023 Dec 2023 athan Hester <i>tation.</i>	, C I	GEOF Contact: ROBER Robert.Lockwood	SAVANAH RD GETOWN, DE US 19947 T LOCKWOOD