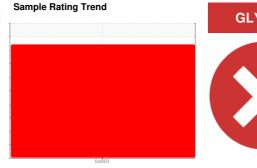


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Client Info	W40 (GAL)				Oct2023		
Sample Date Client Info 17 Oct 2023 Machine Age hrs Client Info 8675 Oil Age hrs Client Info N/A Oil Changed Client Info N/A Sample Status SEVERE CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >2 2 Alluminum ppm ASTM D5185m >2 0 Alluminum ppm ASTM D5185m >2 0 Lead ppm ASTM D5185m >330	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 8675	Sample Number		Client Info		WC0840499		
Machine Age hrs Client Info 8675	· ·		Client Info		17 Oct 2023		
Oil Age hrs Client Info N/A	•	hrs	Client Info		8675		
Contament Cont		hrs	Client Info		0		
CONTAMINATION method limit/base current history1 history2	•				-		
WEAR METALS	-						
WEAR METALS	CONTAMINATION	٧	method	limit/base	current	history1	history2
Contain	Fuel		WC Method	>5	<1.0		
Chromium ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >2 2 Titianium ppm ASTM D5185m >2 0 Siliver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >2 0 Lead ppm ASTM D5185m >40 <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium	ron	ppm	ASTM D5185m	>100	30		
Nickel	Chromium		ASTM D5185m	>20	1		
Silver	Nickel				2		
Silver	Titanium			>2			
Aluminum							
Lead ppm ASTM D5185m >40 <1 Copper ppm ASTM D5185m >330 3 Tin ppm ASTM D5185m >15 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0.0 0 Barium ppm ASTM D5185m 0.0 0 Molybdenum ppm ASTM D5185m 1.2 99 Magnesium ppm ASTM D5185m 24 725 Calcium ppm ASTM D5185m 292 1143 Phosphorus ppm ASTM D5185m 160 1141 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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Trin							
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Barium	ADDITIVES		method	limit/base	current	history1	history2
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Calcium ppm ASTM D5185m 2292 1143 Phosphorus ppm ASTM D5185m 1064 1011 Zinc ppm ASTM D5185m 1160 1141 Sulfur ppm ASTM D5185m 4996 3131 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 9 Sodium ppm ASTM D5185m >20 408 Potassium ppm ASTM D5185m >20 408 Glycol % *ASTM D2982 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 6.8 Sulfation Abs/.1mm *ASTM D7415 >30 </td <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td><1</td> <td></td> <td></td>	Manganese	ppm	ASTM D5185m		<1		
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Zinc ppm ASTM D5185m 1 160 1141 Sulfur ppm ASTM D5185m 4996 3131 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 9 Sodium ppm ASTM D5185m >20 408 Potassium ppm ASTM D5185m >20 408 Glycol % *ASTM D2982 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 6.8 Sulfation Abs/.1mm *ASTM D7415 >30 17.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 <t< td=""><td>Phosphorus</td><td>ppm</td><td>ASTM D5185m</td><td>1064</td><td>1011</td><td></td><td></td></t<>	Phosphorus	ppm	ASTM D5185m	1064	1011		
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Sodium ppm ASTM D5185m ▲ 230 Potassium ppm ASTM D5185m >20 ▲ 408 Glycol % *ASTM D2982 ● 0.10 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 6.8 Sulfation Abs/.1mm *ASTM D7415 >30 17.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.6	CONTAMINANTS		method	limit/base	current	history1	history2
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Soot %	Sodium	ppm	ASTM D5185m		230		
Soot %	Potassium	ppm	ASTM D5185m	>20	408		
Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 6.8 Sulfation Abs/.1mm *ASTM D7415 >30 17.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.6	Glycol	%	*ASTM D2982		• 0.10		
Nitration Abs/cm *ASTM D7624 >20 6.8 Sulfation Abs/.1mm *ASTM D7615 >30 17.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.6	INFRA-RED		method	limit/base	current	history1	history2
Nitration Abs/cm *ASTM D7624 >20 6.8 Sulfation Abs/.1mm *ASTM D7615 >30 17.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.6	Soot %	%	*ASTM D7844	>3	0.2		
Sulfation Abs/.1mm *ASTM D7415 >30 17.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.6							
Oxidation							
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6		
	Base Number (BN)	mg KOH/g			10.0		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: WC0840499 : 05996185 : 10724545

Received : 01 Nov 2023 Diagnosed : 04 Nov 2023

Diagnostician : Don Baldridge

Test Package : MOB 1 (Additional Tests: Glycol, 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)

INTERSTATE WASTE-NEW BRUNSWICK

986 JERSEY AVE NEW BRUNSWICK, NJ US 08901

Contact: Service Manager

T:

F: