

Store 2 - Beaver [RO#151762] SUPERIOR BROOM DT74J 823696 Component Rear Axle

SAE 85W140 (3 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

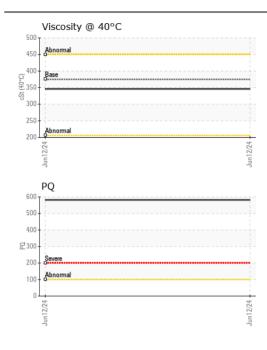
There is no indication of any contamination in the oil.

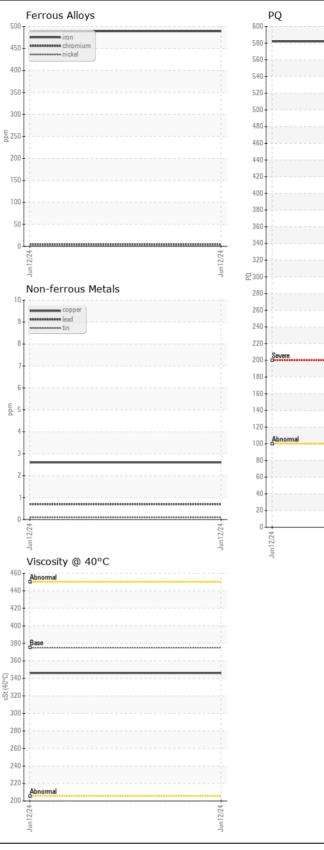
FLUID CONDITION

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

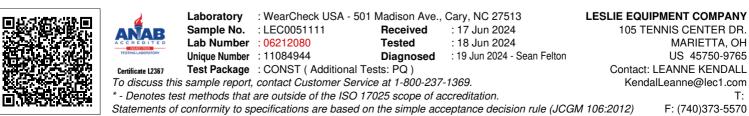
TestUOMMethodLimit/ADCurrentHistory1History2Sample NumberClient InfoI2 Jun 2024Machine AgehrsClient InfoG31Machine AgehrsClient InfoG31Oil AgehrsClient InfoG31Filter AgehrsClient InfoNot ChangedOil ChangedClient InfoNot ChangedFilter AgehrsClient InfoNASample StatusVNot ChangedPQASTM D8185NO489NickelppmASTM D5185>104NickelppmASTM D5185>104AluminumppmASTM D5185>25<1AluminumppmASTM D5185>25<1VanadiumppmASTM D5185>503VanadiumppmASTM D5185>10<1VanadiumppmASTM D5185>203SiliconppmASTM D5185>208VanadiumppmASTM D5185>208SiliconppmASTM D5185>208SiliconppmAS							
Sample DateClient InfoIz Jun 2024Machine AgehrsClient Info631Oil AgehrsClient Info0Filter AgehrsClient InfoNot ChangeOil ChangedClient InfoNot ChangeFilter ChangedClient InfoNASample StatusNAPQASTM D8186582PCASTM D5185>104NickelppmASTM D5185-03NickelppmASTM D5185-03SilverppmASTM D5185>252LeadppmASTM D5185>503VanadiumppmASTM D5185>503VanadiumppmASTM D5185>10Vellow Metalscalar'VisualNONENONESiliconppmASTM D5185>7510PotasuimppmASTM D5185>208SiliconppmASTM D5185>208SiliconppmASTM D5185>20RONESoliconppmASTM D5185>20RONE<	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil AgehrsClient Info631Oil Age Filter AgehrsClient Info0Oil ChangedClient InfoNot ChangdOil ChangedClient InfoNot ChangdFilter ChangedClient InfoNot ChangdSample StatusNorRMALPQASTM D5185m>500489IronppmASTM D5185m>104NickelppmASTM D5185m>103NickelppmASTM D5185m>252AuminumppmASTM D5185m>252AuminumppmASTM D5185m>503VanadiumppmASTM D5185m>503VandumppmASTM D5185m>10<1VandumppmASTM D5185m>7510SiliconppmASTM D5185m>7510SiliconppmASTM D5185m>20RegSiliconppmASTM D5185m>20RegSiliconppmASTM D5185m>20RegSiliconppmASTM D5185m>20RegSodu/D1scal	Sample Number		Client Info		LEC0051111		
Oil AgehrsClient Info631Filter AgehrsClient InfoNot ChangdOil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/APQASTM DB184S52IronppmASTM D5185m>500489NickelppmASTM D5185m>104NickelppmASTM D5185m>103SilverppmASTM D5185m>252AluminumppmASTM D5185m>253AuminumppmASTM D5185m>253VanadiumppmASTM D5185m>10<1VanadiumppmASTM D5185m>10<1VanadiumppmASTM D5185m>2510VanadiumppmASTM D5185m>208Vellow Metalscalar'VisualNONENONESiliconppmASTM D5185m>208SiliconppmASTM D5185m>20RORESiliconppmASTM D5185m>20NORESoliconppm	Sample Date		Client Info		12 Jun 2024		
Filter Age Oil Changed hrs Client Info O Oil Changed Client Info N/A Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM DS186 >500 489 Iron ppm ASTM DS185 >10 4 Nickel ppm ASTM DS185 >10 3 Chromium ppm ASTM DS185 >10 3 Silver ppm ASTM DS185 >10 3 Aluminum ppm ASTM DS185 >25 2 Silver ppm ASTM DS185 >25 3 Auminum ppm ASTM DS185 >10 <1 Vanadium ppm ASTM DS185 >50 3 Vanaduum ppm ASTM DS185 >10 <1 Vanaduum ppm ASTM DS185 >20 8 Silicon ppm ASTM DS185 >20 8	Machine Age	hrs	Client Info		631		
Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoN/ASample StatusNORMALPQASTM D8184582IronppmASTM D5185m>500489ChromiumppmASTM D5185m>104NickelppmASTM D5185m>103NickelppmASTM D5185m<1SilverppmASTM D5185m>252AluminumppmASTM D5185m>503LeadppmASTM D5185m>503CopperppmASTM D5185m>503VanduimppmASTM D5185m>10<1Valdu Metalscalar'VisualNONENONESiliconppmASTM D5185m>7510SiliconppmASTM D5185m>208SiliconppmASTM D5185m>208SiliconppmASTM D5185m>208SiliconppmASTM D5185m>208SiliconppmASTM D5185m>208SodiumppmASTM	Oil Age	hrs	Client Info		631		
Filter Changed Client Info N/A Sample Status NORMAL PQ ASTM D8184 582 Iron ppm ASTM D5185n >500 489 Nickel ppm ASTM D5185n >10 4 Nickel ppm ASTM D5185n >10 3 Silver ppm ASTM D5185n >10 3 Auminum ppm ASTM D5185n >25 2 Auminum ppm ASTM D5185n >25 21 Lead ppm ASTM D5185n >25 3 Vanadium ppm ASTM D5185n >10 <1 Vanadium ppm ASTM D5185n >10 < Vanadium ppm ASTM D5185n >25 10 Vanadium	Filter Age	hrs	Client Info		0		
Sample Status NORMAL PQ ASTM D8184 582 Iron ppm ASTM D6185 >500 489 Chromium ppm ASTM D5185 >10 4 Nickel ppm ASTM D5185 >10 3 Silver ppm ASTM D5185 >10 3 Aluminum ppm ASTM D5185 >10 C1 Lead ppm ASTM D5185 >25 2 Vanadium ppm ASTM D5185 >10 <1 Vanadium ppm ASTM D5185 >10 <1 Vanadium ppm ASTM D5185 >10 Vanadium ppm ASTM D5185 >10 Vanadium	Oil Changed		Client Info		Not Changd		
PQASTM D8184582IronppmASTM D5185m>5004899ChromiumppmASTM D5185m>104NickelppmASTM D5185m>103TitaniumppmASTM D5185m<1SilverppmASTM D5185m>252AluminumppmASTM D5185m>252LeadppmASTM D5185m>253CopperppmASTM D5185m>503VanadiumppmASTM D5185m>503VanadiumppmASTM D5185m>503VanadiumppmASTM D5185m>503Valdescalar*VisualNONENONEValdescalar*VisualNONENONESiliconppmASTM D5185m>208Silitonscalar*VisualNONENONESilitscalar*VisualNONENONESadd/Dirtscalar*VisualNORENONEAppearancescalar*VisualNORENOREBoronppmASTM D5185m	Filter Changed		Client Info		N/A		
iron ppm ASTM D5185m >500 489 Chromium ppm ASTM D5185m >10 3 Nickel ppm ASTM D5185m >10 3 Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m >25 2 Aluminum ppm ASTM D5185m >25 <1 Lead ppm ASTM D5185m >50 3 Vanadium ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >10 < Vanadium ppm ASTM D5185m >75 10 Vanadium ppm ASTM D5185m >20 8	Sample Status				NORMAL		
iron ppm ASTM D5185m >500 489 Chromium ppm ASTM D5185m >10 3 Nickel ppm ASTM D5185m >10 3 Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m >25 2 Aluminum ppm ASTM D5185m >25 <1 Lead ppm ASTM D5185m >50 3 Vanadium ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >10 < Vanadium ppm ASTM D5185m >75 10 Vanadium ppm ASTM D5185m >20 8	DO				500		
Chromium ppm ASTM D5185m >10 4 Nickel ppm ASTM D5185m >10 3 Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m >25 2 Aluminum ppm ASTM D5185m >25 <1 Lead ppm ASTM D5185m >50 3 Copper ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m >75 10 Vanadium ppm ASTM D5185m >75 10				500			
NickelppmASTM D5185m>103TitaniumppmASTM D5185m<1SilverppmASTM D5185m22AluminumppmASTM D5185m>252LeadppmASTM D5185m>25<1CopperppmASTM D5185m>03TinppmASTM D5185m>10<1VanadiumppmASTM D5185m<1VanadiumppmASTM D5185m<1VanadiumppmASTM D5185m>7510Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7510SiliconppmASTM D5185m>208VaterWC Method>0.2NEGSiltscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLSodiumppmASTM D5185m5BoronppmASTM D5185m5MalybdenumppmASTM D5185m38MagnesiumppmASTM D5185m5<							
Titanium ppm ASTM D5185m <1					-		
Number of the second				>10	-		
Aluminum ppm ASTM D5185m >25 2 Lead ppm ASTM D5185m >25 <1							
Lead ppm ASTM D5185m >25 <1				0.5			
CopperppmASTM D5185m>503TinppmASTM D5185m>10<1VanadiumppmASTM D5185m<1White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7510PotassiumppmASTM D5185m>208WaterWC Method>.0.2NEGSilitscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m-4BariumppmASTM D5185mMaganeseppmASTM D5185m-38MagnesiumppmASTM D5185mPhosphorusppmASTM D5185mSoliumppmASTM D5185mMaganeseppmASTM D5185m							
TinppmASTM D5185m>10<1							
VanadiumppmASTM D5185m<1					-		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7510PotassiumppmASTM D5185m>208WaterWC Method>0.2NEGSilitscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m4BoronppmASTM D5185m5ManganeseppmASTM D5185m38ManganeseppmASTM D5185m5MagnesiumppmASTM D5185m14PhosphorusppmASTM D5185m5SulfurppmASTM D5185m5ManganeseppmASTM D5185m14PhosphorusppmASTM D5185m5PhosphorusppmASTM D5185m14SulfurppmASTM D5185m14PhosphorusppmASTM D5185m				>10			
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>7510PotassiumppmASTM D5185m>208WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185mBoronppmASTM D5185mMolybdenumppmASTM D5185mManganeseppmASTM D5185mMagnesiumppmASTM D5185mPhosphorusppmASTM D5185mSulfurppmASTM D5185mMagnesiumppmASTM D5185mPhosphorusppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5							
Silicon ppm ASTM D5185m >75 10 Potassium ppm ASTM D5185m >20 8 Water WC Method >0.2 NEG Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORM NORML Odor scalar *Visual NORM NORML Sodium ppm ASTM D5185m A Boron ppm ASTM D5185m A Barium ppm ASTM D5185m 5 Molybdenum ppm ASTM D5185m 38					-		
PotassiumppmASTM D5185m>208WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLSodiumppmASTM D5185m4BoronppmASTM D5185m5BariumppmASTM D5185m5ManganeseppmASTM D5185m38MagnesiumppmASTM D5185m5PhosphorusppmASTM D5185m5ZincppmASTM D5185m14SulfurppmASTM D5185m14	Yellow Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>208WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLSodiumppmASTM D5185m4BoronppmASTM D5185m5BariumppmASTM D5185m5ManganeseppmASTM D5185m38MagnesiumppmASTM D5185m5PhosphorusppmASTM D5185m5ZincppmASTM D5185m14SulfurppmASTM D5185m14	Silicon	maa	ASTM D5185m	>75	10		
WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m4BoronppmASTM D5185m4BariumppmASTM D5185m5MalganeseppmASTM D5185m38MagnesiumppmASTM D5185m5PhosphorusppmASTM D5185m14SulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185m							
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m4BoronppmASTM D5185m5BariumppmASTM D5185m5MolybdenumppmASTM D5185m38MagnesiumppmASTM D5185m5PhosphorusppmASTM D5185m5ZincppmASTM D5185m14SulfurppmASTM D5185m18816		lelerri			NEG		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMNONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m4BoronppmASTM D5185m5BariumppmASTM D5185m5MolybdenumppmASTM D5185m-38MagnesiumppmASTM D5185m5PhosphorusppmASTM D5185m5PhosphorusppmASTM D5185m14SulfurppmASTM D5185mSulfurppmASTM D5185mPhosphorusppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185mSulfurppmASTM D5185m		scalar			-		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m4BoronppmASTM D5185m7BariumppmASTM D5185m5MolybdenumppmASTM D5185m38MagnesiumppmASTM D5185m5PhosphorusppmASTM D5185m5PhosphorusppmASTM D5185m14SulfurppmASTM D5185m18816					-		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m4BoronppmASTM D5185m7BariumppmASTM D5185m5MolybdenumppmASTM D5185m1ManganeseppmASTM D5185m38MagnesiumppmASTM D5185m5PhosphorusppmASTM D5185m5ZincppmASTM D5185m14SulfurppmASTM D5185m018816					-		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m4BoronppmASTM D5185m7BariumppmASTM D5185m5MolybdenumppmASTM D5185m<4MagneseppmASTM D5185m<38MagnesiumppmASTM D5185m<38CalciumppmASTM D5185m5PhosphorusppmASTM D5185m5ZincppmASTM D5185m14SulfurppmASTM D5185m18816	Appearance			NORML	-		
Emulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m4BoronppmASTM D5185m7BariumppmASTM D5185m5MolybdenumppmASTM D5185m<5ManganeseppmASTM D5185m<38MagnesiumppmASTM D5185m<5CalciumppmASTM D5185m5PhosphorusppmASTM D5185m5ZincppmASTM D5185m14SulfurppmASTM D5185m18816		scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 4 Boron ppm ASTM D5185m 7 Barium ppm ASTM D5185m 5 Barium ppm ASTM D5185m 5 Molybdenum ppm ASTM D5185m 5 Manganese ppm ASTM D5185m 38 Magnesium ppm ASTM D5185m 38 Calcium ppm ASTM D5185m 5 Phosphorus ppm ASTM D5185m 5 Zinc ppm ASTM D5185m 305 Sulfur ppm ASTM D5185m 14	Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 7 Barium ppm ASTM D5185m 5 Molybdenum ppm ASTM D5185m <1 Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m 38 Magnesium ppm ASTM D5185m <1 Calcium ppm ASTM D5185m 5 Phosphorus ppm ASTM D5185m 5 Zinc ppm ASTM D5185m 14 Sulfur ppm ASTM D5185m 18816							
Barium ppm ASTM D5185m 5 Molybdenum ppm ASTM D5185m <1 Manganese ppm ASTM D5185m 38 Magnesium ppm ASTM D5185m 38 Magnesium ppm ASTM D5185m <1 Calcium ppm ASTM D5185m 5 Phosphorus ppm ASTM D5185m 305 Zinc ppm ASTM D5185m 14 Sulfur ppm ASTM D5185m 18816	Sodium	ppm	ASTM D5185m		4		
Molybdenum ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		7		
Manganese ppm ASTM D5185m 38 Magnesium ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		5		
Magnesium ppm ASTM D5185m <1	Molybdenum	ppm	ASTM D5185m		<1		
Calcium ppm ASTM D5185m 5 Phosphorus ppm ASTM D5185m 305 Zinc ppm ASTM D5185m 14 Sulfur ppm ASTM D5185m 18816	Manganese	ppm	ASTM D5185m		38		
Phosphorus ppm ASTM D5185m 305 Zinc ppm ASTM D5185m 14 Sulfur ppm ASTM D5185m 18816	Magnesium	ppm	ASTM D5185m		<1		
Zinc ppm ASTM D5185m 14 Sulfur ppm ASTM D5185m 18816	Calcium	ppm	ASTM D5185m		5		
Sulfur ppm ASTM D5185m 18816	Galolani						
		ppm	ASTM D5185m		305		
Visc @ 40°C cSt ASTM D445 375 (346)	Phosphorus						
Submitted Duy STOLE 3 DE AVED CASEV TONEV	Phosphorus Zinc	ppm	ASTM D5185m		14		

Submitted By: STORE 2 - BEAVER - CASEY TONEY





un12/24



Submitted By: STORE 2 - BEAVER - CASEY TONEY Page 2 of 2