OIL ANALYSIS REPORT

Sample Rating Trend





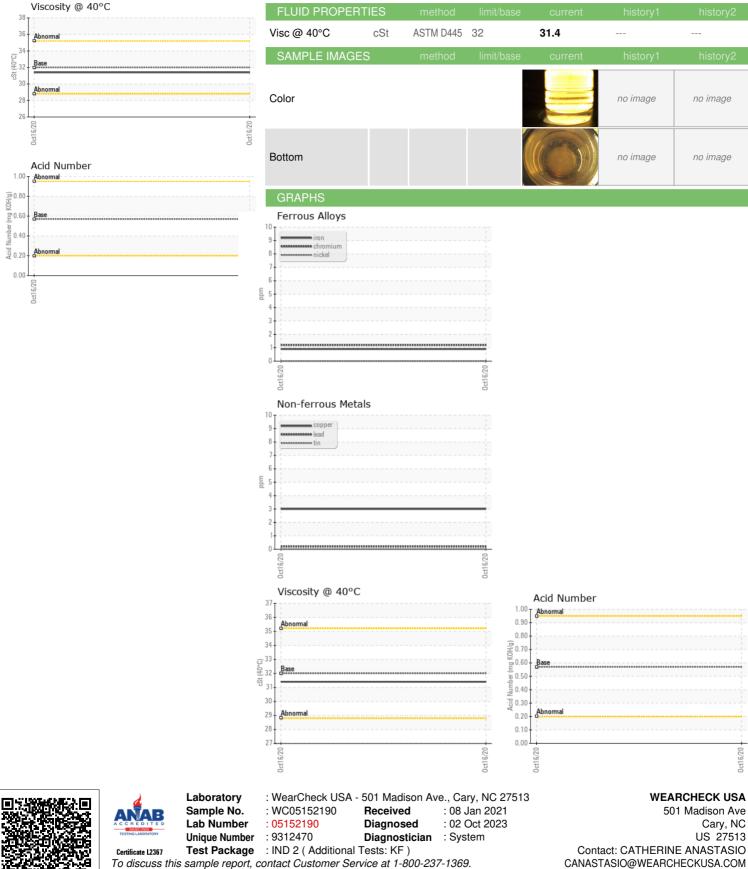
Component Hydraulic System F

AW HYDRAULIC OIL ISO 32 (--- GAL)

Sample Number Client Info WC05152190 Sample Date Client Info 0 Oil Age hrs Client Info 0 Dil Changed KS Client Info 0 Dil Changed Client Info N/A WEAR METALS nethod Imit/base current history1 history2 Tron ppm ASTM 05185m >20 1 Nickel ppm ASTM 05185m >20 0 Nickel ppm ASTM 05185m >20 0 Lead ppm ASTM 05185m >20 0 Antimom ppm ASTM 05185m >20 0 Antimomy ppm ASTM 05185m >20 0 ADDITIVES method Imit/ba					0ct2020		
Sample Date Client Info 16 Oct 2020 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Sample Status Client Info N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >20 <1 Nickel ppm ASTM 05185m >20 0 Silver ppm ASTM 05185m >20 0 Copper ppm ASTM 05185m >20 0 Antimony ppm ASTM 05185m >20 0 Antimony ppm ASTM 05185m >20 0 Antimony ppm ASTM 05185m >0 Antimony ppm <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 Dil Age hrs Client Info 0 Dil Changed Client Info N/A Sample Status Info NORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >20 1 Nickel ppm ASTM 05185m >20 0 Silver ppm ASTM 05185m >20 0 Auminum ppm ASTM 05185m >20 3 Auminum ppm ASTM 05185m >20 3 Auminum ppm ASTM 05185m >20 0 Auminum ppm ASTM 05185m 5 0 Auminony p	Sample Number		Client Info		WC05152190		
Dil Age hrs Client Info 0 Sample Status Client Info N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D518m >20 1 Chromium ppm ASTM D518m >20 0 Nickel ppm ASTM D518m >20 0 Aluminum ppm ASTM D518m 0 Aluminum ppm ASTM D518m >20 0 Aduminum ppm ASTM D518m >20 0 Aduminum ppm ASTM D518m >20 0 Aduminum ppm ASTM D518m 0 Aduminum ppm ASTM D518m 0	Sample Date		Client Info		16 Oct 2020		
Cili Changed Client Info N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185n >20 <1	Machine Age	hrs	Client Info		0		
Sample Status method Imit/base current history1 history2 Iron ppm ASTM D5185m >20 <1	Oil Age	hrs	Client Info		0		
WEAR METALS method limit/base current history1 history2 iron ppm ASTM 05185m >20 <1	Oil Changed		Client Info		N/A		
ron ppm ASTM D5185m >20 <1 Chromium ppm ASTM D5185m >20 0 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Quantity ppm ASTM D5185m 20 0 Aluminum ppm ASTM D5185m >20 0 Autimony ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m 0	Sample Status				NORMAL		
Ppm ASTM D5185m >20 1 Nickel ppm ASTM D5185m >20 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >20 0 Aluminum ppm ASTM D5185m >20 0 Copper ppm ASTM D5185m >20 3 Antimony ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m 0 Antimony ppm ASTM D5185m 0 Antimony ppm ASTM D5185m 5 0 Antimony ppm ASTM D5185m 5 0 Antimony ppm ASTM D5185m 5 0	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >20 0 Titanium ppm ASTM D5185m 0 Sliver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >20 0 Lead ppm ASTM D5185m >20 3 Copper ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m 0 Antimony ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 5 0 Maganese ppm ASTM D5185m 20 46	Iron	ppm	ASTM D5185m	>20	<1		
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m S20 0 Aluminum ppm ASTM D5185m >20 0 Aluminum ppm ASTM D5185m >20 3 Copper ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m 0 Antimony ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 0 Maluganeske ppm ASTM D5185m 5 0 Magnesium ppm ASTM D5185m 20 46 Calcium ppm ASTM D5185m 20	Chromium	ppm	ASTM D5185m	>20	1		
Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >20 0 Lead ppm ASTM D5185m >20 3 Copper ppm ASTM D5185m >20 3 Antimony ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m 0	Nickel	ppm	ASTM D5185m	>20	0		
Aluminum ppm ASTM D5185m >20 0 Lead ppm ASTM D5185m >20 <1	Titanium	ppm	ASTM D5185m		0		
Lead ppm ASTM D5185m >20 <1 Copper ppm ASTM D5185m >20 3 Tin ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 ADDITIVES method limi/base current history1 history2 Boron ppm ASTM D5185m 5 0 Molybdenum ppm ASTM D5185m 5 0 Mangase ppm ASTM D5185m 25 18 Calcium ppm ASTM D5185m 200 46 Sulfur ppm ASTM D5185m 37.0 278 Sodium ppm ASTM D5185m >15 <td< td=""><td>Silver</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>0</td><td></td><td></td></td<>	Silver	ppm	ASTM D5185m		0		
Copper ppm ASTM D5185m >20 3 Antimony ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 0 Molydenum ppm ASTM D5185m 5 0 Magnesium ppm ASTM D5185m 5 0 Magnesium ppm ASTM D5185m 25 18 Calcium ppm ASTM D5185m 200 46 Sulfur ppm ASTM D5185m 2500 2473 Sulfur ppm ASTM D5185m >15 2	Aluminum	ppm	ASTM D5185m	>20	0		
Tin ppm ASTM D5185m >20 0 Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 5 <1	Lead	ppm	ASTM D5185m	>20	<1		
AntimonyppmASTM D5185m0VanadiumppmASTM D5185m0CadmiumppmASTM D5185m0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m5<1	Copper	ppm	ASTM D5185m	>20	3		
VanadiumppmASTM D5185m0CadmiumppmASTM D5185m0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m5<1	Tin	ppm	ASTM D5185m	>20	0		
CadmiumppmASTM D5185m0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m5<1	Antimony	ppm	ASTM D5185m		0		
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m5<1	Vanadium	ppm	ASTM D5185m		0		
Boron ppm ASTM D5185m 5 <1 Barium ppm ASTM D5185m 5 0	Cadmium	ppm	ASTM D5185m		0		
Barium ppm ASTM D5185m 5 0 Molybdenum ppm ASTM D5185m 5 0 Manganese ppm ASTM D5185m 25 18 Magnesium ppm ASTM D5185m 200 46 Calcium ppm ASTM D5185m 200 46 Phosphorus ppm ASTM D5185m 300 253 Sulfur ppm ASTM D5185m 370 2778 Sulfur ppm ASTM D5185m 2500 2473 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 <1	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m50ManganeseppmASTM D5185m2518MagnesiumppmASTM D5185m20046PhosphorusppmASTM D5185m200253PhosphorusppmASTM D5185m370278SulfurppmASTM D5185m25002473CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>152CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20<1	Boron	ppm	ASTM D5185m	5	<1		
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 25 18 Calcium ppm ASTM D5185m 200 46 Phosphorus ppm ASTM D5185m 300 253 Zinc ppm ASTM D5185m 370 278 Sulfur ppm ASTM D5185m 370 2473 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 Sodium ppm ASTM D5185m >20 <1	Barium	ppm	ASTM D5185m	5	0		
MagnesiumppmASTM D5185m2518CalciumppmASTM D5185m20046PhosphorusppmASTM D5185m300253ZincppmASTM D5185m370278SulfurppmASTM D5185m25002473CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>152SodiumppmASTM D5185m>20<1	Molybdenum	ppm	ASTM D5185m	5	0		
CalciumppmASTM D5185m20046PhosphorusppmASTM D5185m300253ZincppmASTM D5185m370278SulfurppmASTM D5185m25002473SulfurppmASTM D5185m25002473CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>152SodiumppmASTM D5185m>20<1	Manganese	ppm	ASTM D5185m		0		
PhosphorusppmASTM D5185m300253ZincppmASTM D5185m370278SulfurppmASTM D5185m25002473CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>152SodiumppmASTM D5185m>152PotassiumppmASTM D5185m>20<1	Magnesium	ppm	ASTM D5185m	25	18		
ZincppmASTM D5185m370278SulfurppmASTM D5185m25002473CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>152SodiumppmASTM D5185m>152SodiumppmASTM D5185m>20<1	Calcium	ppm	ASTM D5185m	200	46		
SulfurppmASTM D5185m25002473CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>152SodiumppmASTM D5185m>20<1	Phosphorus	ppm	ASTM D5185m	300	253		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>152SodiumppmASTM D5185m>20<1	Zinc	ppm	ASTM D5185m	370	278		
SiliconppmASTM D5185m>152SodiumppmASTM D5185m0PotassiumppmASTM D5185m>20<1	Sulfur	ppm	ASTM D5185m	2500	2473		
SodiumppmASTM D5185m0PotassiumppmASTM D5185m>20<1	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20<1VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	Silicon	ppm	ASTM D5185m	>15	2		
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	Sodium	ppm	ASTM D5185m		0		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	Potassium	ppm	ASTM D5185m	>20	<1		
Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	White Metal	scalar					
Siltscalar*VisualNONENONEDebrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	Yellow Metal	scalar	*Visual	NONE	-		
Debrisscalar*VisualNONELIGHTSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	Precipitate	scalar	*Visual				
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.05NEG	Debris	scalar	*Visual	NONE	LIGHT		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.05 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.05	NEG		
	Free Water	scalar	*Visual		NEG		



OIL ANALYSIS REPORT



* - 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)

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