

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

EXTRUDER 440 (S/N 21764)

Gearbox Fluid

FUCHS RENOLIN CLP ISO 320 (11 LTR)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as FUCHS RENOLIN CLP ISO 320, however, a fluid match indicates that this fluid is ISO 220 Gear Oil. Please confirm the oil type and grade on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

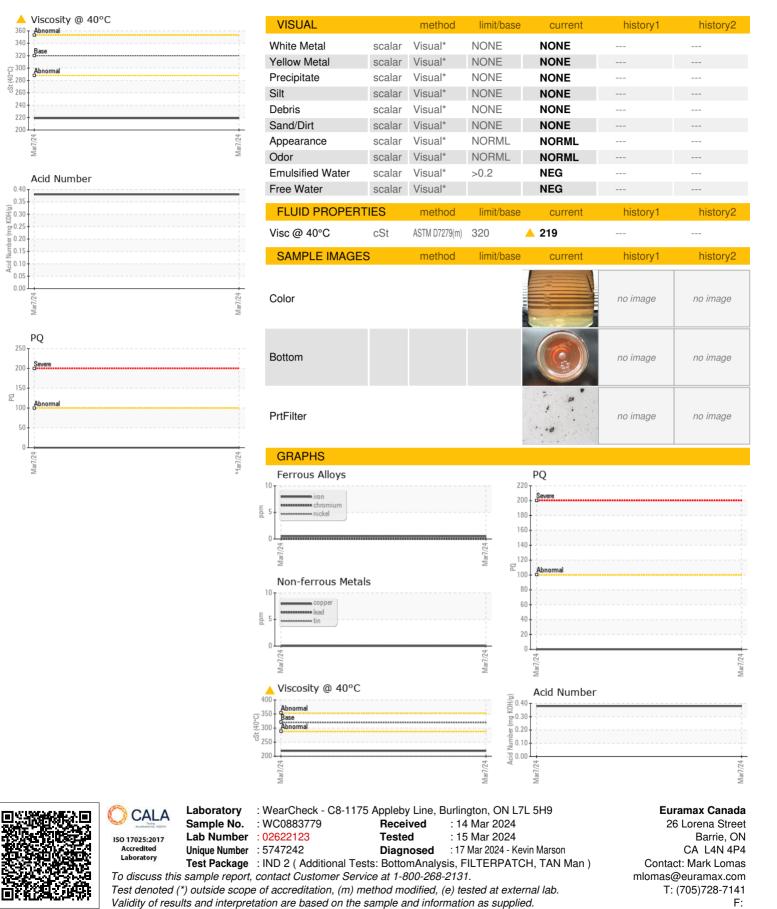
Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Date Client Info 07 Mar 2024			-		Mar2024		
Sample Date Client Info 07 Mar 2024 Machine Age mths Client Info 0 Oil Age mths Client Info 4 Sample Status Client Info N/A Sample Status Client Info N/A CONTAMINATION method imit/base current history1 history2 Water WC Method >0.2 NEG WEAR METALS method imit/base current history1 history2 PQ ASTM D518(m) 55 0 Iron ppm ASTM D518(m) 55 1 Silver ppm ASTM D518(m) >25 1 Auminum ppm ASTM D518(m) >200 0 Auminum pp	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age mths Client Info 0 Oil Age mths Client Info N/A Sample Status I Imit/base Current History1 CONTAMINATION method limit/base current history1 Water WC Method >0.2 NEG WAter WC Method >0.2 NEG WAter WC Method >0.2 NEG PQ ASTM D5185(m) S200 <1	Sample Number		Client Info		WC0883779		
Oil Age mths Client Info 4 Oil Changed Client Info N/A Sample Status method limi/base current history1 history2 Water WC Method >0.2 NEG WEAR METALS method limi/base current history1 history2 PQ ASTM D8184' 0 Iron ppm ASTM D5185(m) >15 0 Nickel ppm ASTM D5185(m) >20 Aduminum ppm ASTM D5185(m) >20 0 Aduminum ppm ASTM D5185(m) >20 0 Aduminum ppm ASTM D5185(m) >20 0 Aduminum ppm ASTM D5185(m) >20 Adumin	Sample Date		Client Info		07 Mar 2024		
Oil Changed Sample Status Client Info N/A Sample Status method limit/base current history1 history2 Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8184/ 0 Iron ppm ASTM D5185(m) >200 <1 Nickel ppm ASTM D5185(m) >15 0 Silver ppm ASTM D5185(m) >25 <1 Itanium ppm ASTM D5185(m) >200 0 Aduminum ppm ASTM D5185(m) >200 0 Itanium ppm ASTM D5185(m) >200 0 Aduminum ppm ASTM D5185(m) >20 0	Machine Age	mths	Client Info		0		
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Chromium ppm ASTM D5185(m) >15 0 Nickel ppm ASTM D5185(m) >15 <1	Iron	ppm	ASTM D5185(m)	>200	<1		
Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) >25 <1	Chromium		. ,	>15	0		
Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) >25 <1	Nickel		ASTM D5185(m)	>15	<1		
Aluminum ppm ASTM D5185(m) >25 <1	Titanium	ppm			0		
Lead ppm ASTM D5185(m) >100 0 Copper ppm ASTM D5185(m) >200 0 Tin ppm ASTM D5185(m) >25 0 Antimony ppm ASTM D5185(m) >5 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 63 Molybdenum ppm ASTM D5185(m) 0 Maganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) <1	Silver	ppm	ASTM D5185(m)		0		
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ManganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)<1	Barium	ppm	ASTM D5185(m)		0		
Magnesium ppm ASTM D5185(m) <1 Calcium ppm ASTM D5185(m) <1	Volybdenum	ppm	ASTM D5185(m)		0		
Calcium ppm ASTM D5185(m) <1 Phosphorus ppm ASTM D5185(m) 248 Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 13126 Lithium ppm ASTM D5185(m) 13126 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 2 Sodium ppm ASTM D5185(m) >50 2 Potassium ppm ASTM D5185(m) >20 <1	Manganese	ppm	ASTM D5185(m)		0		
Phosphorus ppm ASTM D5185(m) 248 Zinc ppm ASTM D5185(m) 2 Sulfur ppm ASTM D5185(m) 13126 Lithium ppm ASTM D5185(m) CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >50 2 Sodium ppm ASTM D5185(m) >50 2 Potassium ppm ASTM D5185(m) >20 <11	Magnesium	ppm	ASTM D5185(m)		<1		
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CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>502SodiumppmASTM D5185(m)0PotassiumppmASTM D5185(m)>20<1	Sulfur	ppm	ASTM D5185(m)		13126		
Silicon ppm ASTM D5185(m) >50 2 Sodium ppm ASTM D5185(m) 0 Potassium ppm ASTM D5185(m) >20 <1 FLUID DEGRADATION method limit/base current history1 history2	Lithium	ppm	ASTM D5185(m)		<1		
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Potassium ppm ASTM D5185(m) >20 <1 FLUID DEGRADATION method limit/base current history1 history2	Sodium		ASTM D5185(m)		0		
			ASTM D5185(m)	>20	<1		
Acid Number (AN) mg KOH/g ASTM D974* 0.38	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974*		0.38		



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Contact/Location: Mark Lomas - EURBAR