

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

T2 PASTEURIZER TOP DECK MAIN DRIVE

Top Gearbox Fluid GEAR OIL (PAG) ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL (PAG) ISO 220. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP		
Sample Date		Client Info		29 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>200	5		
Chromium	ppm	ASTM D5185(m)	>15	0		
Nickel	ppm	ASTM D5185(m)	>15	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>25	0		
Lead	ppm	ASTM D5185(m)	>100	0		
Copper	ppm	ASTM D5185(m)	>200	<1		
Tin	ppm	ASTM D5185(m)	>25	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
D III				0		
Beryllium	ppm	ASTM D5185(m)		U		
Cadmium	ppm ppm	ASTM D5185(m) ASTM D5185(m)		0		
,			limit/base	-		
Cadmium	ppm	ASTM D5185(m)	limit/base 5	0 current		
Cadmium ADDITIVES		ASTM D5185(m) method		0	 history1	 history2
Cadmium ADDITIVES Boron Barium	ppm ppm	ASTM D5185(m) method ASTM D5185(m)	5	0 current <1	 history1 	history2
Cadmium ADDITIVES Boron	ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	5 5	0 current <1 <1	 history1 	 history2
Cadmium ADDITIVES Boron Barium Molybdenum	ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5	0 current <1 <1 0	 history1 	 history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5	0 current <1 <1 0 0	+ history1 	+ history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5	0 current <1 <1 0 0 0 0	+ history1 	+ history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 5	0 current <1 <1 0 0 0 0 <1	+ history1 	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 5 5 775	0 current <1 <1 0 0 0 0 <1 542	 history1 	+ history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 5 775 5	0 current <1 <1 0 0 0 0 <1 542 1	 history1 -	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 5 775 5	0 current <1 <1 0 0 0 0 <1 542 1 481	history1	 history2 -
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 775 5 2000	0 current <1 <1 0 0 0 0 <1 542 1 481 <1 current	+ history1 	+ history2 -
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 5 775 5 2000 imit/base	0 current <1 <1 0 0 0 0 <1 542 1 481 <1	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 775 5 2000 Iimit/base >50	0 current <1 <1 0 0 0 0 <1 542 1 481 <1 current <1	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 5 775 5 2000 limit/base >50 >20	0 current <1 <1 0 0 0 0 <1 542 1 481 <1 current <1 1 1 <1 1 <1	history1 history1	history2 history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	5 5 5 5 5 775 5 2000 Iimit/base >50	0 current <1 <1 0 0 0 0 <1 542 1 481 <1 current <1 1 1	history1 history1	history2 history2 </td

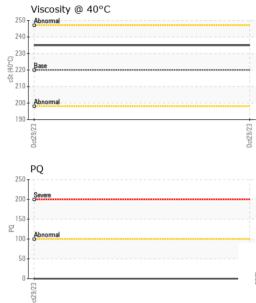






OIL ANALYSIS REPORT





	VISUAL		method	limit/base	current	history1	history2	
	White Metal	scalar	Visual*	NONE	NONE			
	Yellow Metal	scalar	Visual*	NONE	NONE			
	Precipitate	scalar	Visual*	NONE	NONE			
	Silt	scalar	Visual*	NONE	NONE			
	Debris		Visual*	NONE	NONE			
	Sand/Dirt		Visual*	NONE	NONE			
	Appearance		Visual*	NORML	NORML			
	Oddi		Visual*	NORML	NORML			
	Emulsified Water		Visual*	>0.2	NEG			
	Free Water	scalar	Visual*		NEG			
	FLUID PROPER	TIES	method	limit/base	current	history1	history2	
	Visc @ 40°C	cSt /	ASTM D7279(m)	220	235			
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2	
	Color					no image	no image	
	Bottom					no image	no image	
	GRAPHS							
	Iron (ppm)			20	Lead (ppm)			
	600 Severe			30	0			
	- E 400 - Abnormal			²⁰ 10	Abnormal			
	0				0			
	0ct29/23			0ct29/23	0ct29/23			
	_			ŏ			c	
	Aluminum (ppm)			6	Chromium (pp	om)		
	E 100 - Severe			⁴ م	0			
	⁵⁰ Abnormal				T			
	33				23		ę	
	0ct29/23			0ct29/23	0ct29/23			
	Copper (ppm)			-	Silicon (ppm)			
	600 L				OT Severe			
	E 400 Abnormal			E ¹⁰	0 - Abnormal			
	200 - 6			5	0+9			
	0ct29/23 4			0ct29/23 -	0ct29/23			
	_						c	
	Viscosity @ 40°		(0)+ 00 6.00 6.00 6.00 1.00 1.00 1.00 1.00 0.0			Acid Number		
	0- 40-00mal 40-00000 40-00000000000000000000000000			Ĕ 4.0				
				-9 2.0	Abnormal			
	1004				0-0		Ę	
				0ct29/23 Aci	0ct29/23			
	0ct29/23							
CALA Sample I Sample I Lab Nurr Accredited .aboratory Test Pac	ry : WearCheck - C8-11 lo. : PP ber : 02592847 mber : 5669926	Received Diagnosed Diagnostic Tests: PQ	:30 (d :31 (cian :West)	Oct 2023 Oct 2023 s Davis		1 CARLIN 1	ON TORONT GVIEW DRIV ORONTO, OI CA M9W 5E Jirko Miljanovi	

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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