

OIL ANALYSIS REPORT



Machine Id 26663

Component Final Drive Fluid GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

The nickel level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

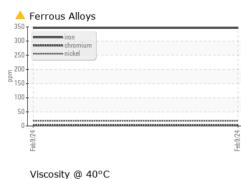
Fluid Condition

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

	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118968		
Sample Date		Client Info		09 Feb 2024		
Machine Age	mls	Client Info		30000		
Oil Age	mls	Client Info		30000		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	346		
Chromium	ppm	ASTM D5185m	>10	3		
Nickel	ppm	ASTM D5185m	>10	1 8		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	10		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>50	3		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	225		
Barium	ppm	ASTM D5185m	200	4		
Molybdenum	ppm	ASTM D5185m	12	0		
				40		
Manganese	ppm	ASTM D5185m		13		
-	ppm ppm	ASTM D5185m ASTM D5185m	12	13 6		
Magnesium			12 150	-		
Magnesium Calcium	ppm	ASTM D5185m		6		
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m	150	6 20		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	150 1650	6 20 1367		
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125	6 20 1367 34		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125 22500 limit/base	6 20 1367 34 22478		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	150 1650 125 22500 limit/base	6 20 1367 34 22478 current	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125 22500 limit/base >75	6 20 1367 34 22478 current 55	 history1	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm JTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125 22500 limit/base >75	6 20 1367 34 22478 current 55 9	 history1 	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm JTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125 22500 limit/base >75 >20	6 20 1367 34 22478 current 55 9 3	 history1 	 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm tTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125 22500 limit/base >75 >20 limit/base	6 20 1367 34 22478 current 55 9 3 current	 history1 history1	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm pm yTS ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125 22500 limit/base >75 >20 limit/base NONE	6 20 1367 34 22478 current 55 9 3 3 current NONE	 history1 history1 	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ypm ypm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Yisual	150 1650 125 22500 limit/base >75 >20 limit/base NONE NONE	6 20 1367 34 22478 current 55 9 3 current NONE NONE	 history1 history1	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm JTS ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	150 1650 125 22500 imit/base >75 >20 imit/base NONE NONE NONE NONE	6 20 1367 34 22478 current 55 9 3 current NONE NONE NONE NONE	 history1 history1	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm Frreiting ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	150 1650 125 22500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE	6 20 1367 34 22478 current 55 9 3 current NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm TTS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	150 1650 125 22500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE	6 20 1367 34 22478 current 55 9 3 3 current NONE NONE NONE NONE NONE NONE NONE	 history1 history1 history1	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm pm pm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	150 1650 125 22500 Iimit/base >75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	6 20 1367 34 22478 current 55 9 3 3 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	150 1650 125 22500 Iimit/base >75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	6 20 1367 34 22478 current 55 9 3 3 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm pm pm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	150 1650 125 22500 Iimit/base >75 >20 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	6 20 1367 34 22478 current 55 9 3 3 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2 history2



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Sample No. : PCA0118968

Lab Number : 06106791

Laboratory

FLUID PROPE	cSt	method ASTM D445	limit/base	current 100	history1	history2
SAMPLE IMAC	250	method	limit/base	current	history1	history2
Color				no image	no image	no image
50101				no inage	nonnage	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Alloys						
- chromium						
Feb 9/24			Feb9/24			
Feb			Feb			
Non-ferrous Meta	ls					
copper						
tin						
+						
-						
+						
4			4			
Feb9/24			Feb9/24			
Viscosity @ 40°C						
Abnormal						
-						
-						
Base			*****			
Abnormal						
Feb9/24			Feb9/24			



Unique Number : 10910288 Diagnosed : 05 Mar 2024 - Sean Felton Test Package : FLEET Contact: Service Manager Certificate L2367 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)

Received

Tested

: 01 Mar 2024

: 04 Mar 2024

189 PERDUE WAY

CANDOR, NC

US 27229

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F: