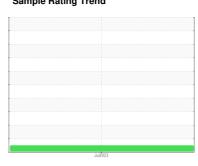


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **2026876**

Component 1 Differential

GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

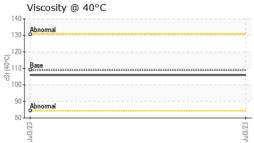
Fluid Condition

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

Sample Number							
Sample Number Client Info PCA0102020					Jul2023		
Sample Date Client Info 03 Jul 2023 Machine Age hrs Client Info 20000 Oil Age hrs Client Info 20000 Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >500 220 Chromium ppm ASTM D5185m >10 2 Nickel ppm ASTM D5185m >10 3 Sliver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >10 47 Tin ppm ASTM D5185m >10 47 Tin ppm ASTM D5185m	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 03 Jul 2023	Sample Number		Client Info		PCA0102020		
Machine Age hrs Client Info 20000 Oil Age hrs Client Info 20000 Oil Changed Client Info N/A Sample Status Image: Control of the property of the prop			Client Info		03 Jul 2023		
Oil Age hrs Client Info 20000 Oil Changed Client Info N/A Sample Status NORMAL WEAR METALS method limit/base current history1 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >500 220 Chromium ppm ASTM D5185m >10 2 Nickel ppm ASTM D5185m 0 Sliver ppm ASTM D5185m 0 Lead ppm ASTM D5185m >10 2 Copper ppm ASTM D5185m >10 2 Copper ppm ASTM D5185m 0 2	•	hrs	Client Info		20000		
Oil Changed Sample Status Client Info N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >500 220 Chromium ppm ASTM D5185m >10 2 Nickel ppm ASTM D5185m >10 3 Nikel ppm ASTM D5185m 10 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 25 3 Lead ppm ASTM D5185m >10 47 Copper ppm ASTM D5185m >10 2 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 .		hrs	Client Info		20000		
Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >500 220 Nickel ppm ASTM D5185m >10 2 Nickel ppm ASTM D5185m >10 3 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 3 Aluminum ppm ASTM D5185m >25 0 Aluminum ppm ASTM D5185m >100 47 Lead ppm ASTM D5185m >10 2 Copper ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m 10 2 Cadmium ppm ASTM D5185m 200	•		Client Info		N/A		
Iron					NORMAL		
Chromium ppm ASTM D5185m >10 2 Nickel ppm ASTM D5185m 0 3 Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m >25 0 Aluminum ppm ASTM D5185m >25 0 Lead ppm ASTM D5185m >25 0 Copper ppm ASTM D5185m >100 47 Tin ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m >10 2 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 12 0 Barium ppm ASTM D5185m 12 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>500	220		
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >25 3 Lead ppm ASTM D5185m >25 0 Copper ppm ASTM D5185m >10 47 Tin ppm ASTM D5185m >10 2 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history1 history2 ADDITIVES method limit/base current history1 history3 ADDITIVES method limit/base current history1 history3 ADDITIVES method limit/base current history	Chromium	ppm	ASTM D5185m	>10	2		
Silver	Nickel	ppm	ASTM D5185m	>10	3		
Aluminum	Titanium	ppm	ASTM D5185m		0		
Lead	Silver	ppm	ASTM D5185m		0		
Lead	Aluminum		ASTM D5185m	>25	3		
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Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 400 242 Barium ppm ASTM D5185m 200 0 Molybdenum ppm ASTM D5185m 12 <1 Manganese ppm ASTM D5185m 12 0 Magnesium ppm ASTM D5185m 150 6 Magnesium ppm ASTM D5185m 150 6 Phosphorus ppm ASTM D5185m 125 9 Zinc ppm ASTM D5185m 125 9 Sulfur ppm ASTM D5185m >775 55 <td></td> <td></td> <td>ASTM D5185m</td> <td>>10</td> <td>2</td> <td></td> <td></td>			ASTM D5185m	>10	2		
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Barium	ADDITIVES		method	limit/base	current	history1	history2
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Manganese ppm ASTM D5185m 12 Magnesium ppm ASTM D5185m 12 0 Calcium ppm ASTM D5185m 150 6 Phosphorus ppm ASTM D5185m 1650 1348 Zinc ppm ASTM D5185m 125 9 Sulfur ppm ASTM D5185m 22500 26306 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 55 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE	Molybdenum	ppm	ASTM D5185m	12	<1		
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Zinc ppm ASTM D5185m 125 9 Sulfur ppm ASTM D5185m 22500 26306 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 55 Sodium ppm ASTM D5185m 8 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE MODER Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual <t< td=""><td>Calcium</td><td>ppm</td><td>ASTM D5185m</td><td>150</td><td>6</td><td></td><td></td></t<>	Calcium	ppm	ASTM D5185m	150	6		
Sulfur ppm ASTM D5185m 22500 26306 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 55 Sodium ppm ASTM D5185m 8 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE MODER Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Appearance scalar *Visual N	Phosphorus	ppm	ASTM D5185m	1650	1348		
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Sodium ppm ASTM D5185m 8 Potassium ppm ASTM D5185m >20 0 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE MODER Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE MODER Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML	CONTAMINAN	TS	method	limit/base	current	history1	history2
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VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE MODER Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE MODER Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML	Sodium	ppm	ASTM D5185m		8		
White Metal scalar *Visual NONE MODER Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE MODER Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML	Potassium	ppm	ASTM D5185m	>20	0		
Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONEMODERDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORML	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE MODER Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML	White Metal	scalar	*Visual	NONE	MODER		
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Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORML	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML	Silt	scalar	*Visual	NONE	MODER		
Appearance scalar *Visual NORML NORML	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORMI NORMI	Appearance	scalar	*Visual	NORML	NORML		
Codial Violal IVOTANE	Odor	scalar	*Visual	NORML	NORML		
Emulsified Water scalar *Visual >.2 NEG	Emulsified Water	scalar	*Visual	>.2	NEG		
Free Water scalar *Visual NEG	Free Water	scalar	*Visual		NEG		
FLUID PROPERTIES method limit/base current history1 history2	FLUID PROPE	RTIES	method	limit/base	current	history1	history2

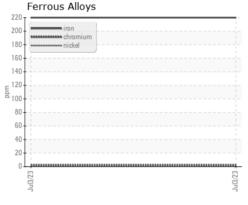


OIL ANALYSIS REPORT

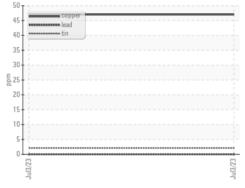




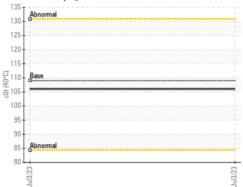
GRAPHS



Non-ferrous Metals











Laboratory Sample No. Lab Number Unique Number : 10552281

: 05896471

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0102020 Received : 12 Jul 2023 Diagnosed : 13 Jul 2023 Diagnostician : Don Baldridge

Test Package : FLEET 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)

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