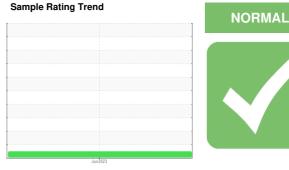


OIL ANALYSIS REPORT

Area **FLEET** 26638 (S/N 4V4WC9EH2JN896024)

Component 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 Client Info PCA0101071	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		PCA0101071		
Oil Age hrs Client Info N/A	Sample Date		Client Info		27 Jun 2023		
Cilient Info	Machine Age	hrs	Client Info		0		
WEAR METALS	Oil Age	hrs	Client Info		0		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >500 199 Chromium ppm ASTM D5185m >10 2 Nickel ppm ASTM D5185m 0 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m 25 4 Aluminum ppm ASTM D5185m >25 0 Lead ppm ASTM D5185m >25 0 Copper ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 20 <t< td=""><td>Oil Changed</td><td></td><td>Client Info</td><td></td><th>N/A</th><td></td><td></td></t<>	Oil Changed		Client Info		N/A		
Chromium	Sample Status				NORMAL		
Description	WEAR METAL	.S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>500	199		
Titanium	Chromium	ppm	ASTM D5185m	>10	2		
Silver	Nickel	ppm	ASTM D5185m	>10	6		
ASTM D5185m >25	Titanium	ppm	ASTM D5185m		0		
Lead	Silver	ppm	ASTM D5185m		0		
Copper	Aluminum	ppm	ASTM D5185m	>25	4		
Tin	Lead	ppm	ASTM D5185m	>25	0		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 200 0 Barium ppm ASTM D5185m 200 0 Molybdenum ppm ASTM D5185m 12 1 Magnesium ppm ASTM D5185m 12 0 Calcium ppm ASTM D5185m 150 4 Phosphorus ppm ASTM D5185m 125 8 Zinc ppm ASTM D5185m 125 8 Zinc ppm ASTM D5185m 22500 28639 CONTAMINANTS method limit/base current h	Copper	ppm	ASTM D5185m	>100	0		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 400 238 Barium ppm ASTM D5185m 200 0 Manylodenum ppm ASTM D5185m 12 Magnesium ppm ASTM D5185m 12 0 Calcium ppm ASTM D5185m 150 4 Phosphorus ppm ASTM D5185m 1650 1424 Zinc ppm ASTM D5185m 125 8 Sulfur ppm ASTM D5185m 22500 28639 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75	Tin	ppm	ASTM D5185m	>10	0		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron ppm ASTM D5185m 400 238 Barium ppm ASTM D5185m 200 0 Molybdenum ppm ASTM D5185m 12 <1 Manganese ppm ASTM D5185m 12 0 Manganese ppm ASTM D5185m 12 0 Manganesium ppm ASTM D5185m 150 4 Manganesium ppm ASTM D5185m 150 4 Manganesium ppm ASTM D5185m 150 4 Manganesium ppm ASTM D5185m 150 1424 Manganesium ppm ASTM D5185m 125 8 Manganesium ppm ASTM D5185m 125 8 Manganesium ppm ASTM D5185m 22500 28639 Manganesium ppm ASTM D5185m Saciam STM D5	Cadmium	ppm	ASTM D5185m		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 12 <1 Manganese ppm ASTM D5185m 12 0 Magnesium ppm ASTM D5185m 150 4 Calcium ppm ASTM D5185m 150 4 Phosphorus ppm ASTM D5185m 125 8 Zinc ppm ASTM D5185m 125 8 Sulfur ppm ASTM D5185m 125 8 Sulfur ppm ASTM D5185m 22500 28639 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 51 Solium ppm ASTM D5185m >20 <1	Boron	ppm	ASTM D5185m	400	238		
Manganese ppm ASTM D5185m 8 Magnesium ppm ASTM D5185m 12 0 Calcium ppm ASTM D5185m 150 4 Phosphorus ppm ASTM D5185m 1650 1424 Zinc ppm ASTM D5185m 125 8 Sulfur ppm ASTM D5185m 125 8 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75	Barium	ppm	ASTM D5185m	200	0		
Magnesium ppm ASTM D5185m 12 0 Calcium ppm ASTM D5185m 150 4 Phosphorus ppm ASTM D5185m 1650 1424 Zinc ppm ASTM D5185m 125 8 Sulfur ppm ASTM D5185m 22500 28639 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 51 Sodium ppm ASTM D5185m >20 <1	Molybdenum	ppm	ASTM D5185m	12	<1		
Calcium ppm ASTM D5185m 150 4 Phosphorus ppm ASTM D5185m 1650 1424 Zinc ppm ASTM D5185m 125 8 Sulfur ppm ASTM D5185m 22500 28639 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 51 Sodium ppm ASTM D5185m >20 <1	Manganese	ppm	ASTM D5185m		8		
Phosphorus ppm ASTM D5185m 1650 1424 Zinc ppm ASTM D5185m 125 8 Sulfur ppm ASTM D5185m 22500 28639 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 51 Sodium ppm ASTM D5185m 8 Potassium ppm ASTM D5185m >20 <1 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<	Magnesium	ppm	ASTM D5185m	12	0		
Zinc	Calcium	ppm	ASTM D5185m	150	4		
Sulfur ppm ASTM D5185m 22500 28639 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 51 Sodium ppm ASTM D5185m 8 Potassium ppm ASTM D5185m >20 <1	Phosphorus	ppm	ASTM D5185m	1650	1424		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 51 Sodium ppm ASTM D5185m 8 Potassium ppm ASTM D5185m >20 <1	Zinc	ppm	ASTM D5185m	125	8		
Silicon	Sulfur	ppm	ASTM D5185m	22500	28639		
Sodium	CONTAMINAN	ITS	method	limit/base	current	history1	history2
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Free Water scalar *Visual NEG	Silicon	ppm	ASTM D5185m	>75	51		
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Sodium	ppm	ASTM D5185m		8		
White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Potassium	ppm	ASTM D5185m	>20	<1		
Yellow Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Codor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	VISUAL		method	limit/base	current	history1	history2
Precipitate scalar *Visual NONE NONE Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	White Metal	scalar	*Visual	NONE	NONE		
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >.2 NEG Free Water scalar *Visual NEG	Appearance	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>.2	NEG		
FLUID PROPERTIES method limit/base current history1 history2	Free Water	scalar	*Visual		NEG		
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2

Visc @ 40°C

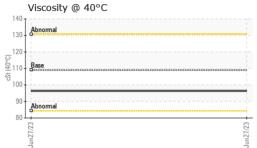
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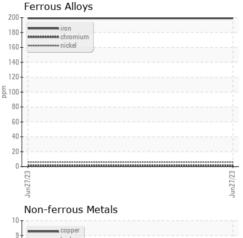


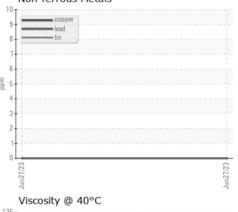
OIL ANALYSIS REPORT

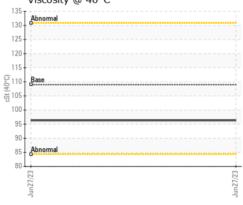




GRAPHS









Laboratory Sample No. Lab Number Unique Number : 10552283

: PCA0101071 : 05896473 Test Package : FLEET

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

Diagnostician : Don Baldridge

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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