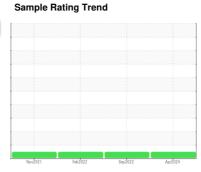


OIL ANALYSIS REPORT

Machine Id
20-78
Component
Right Final Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All 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.

		Nov202	1 Feb2022	Sep 2022 A	pr2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0936953	WC0620114	WC0620065
Sample Date		Client Info		03 Apr 2024	13 Sep 2022	08 Feb 2022
Machine Age	hrs	Client Info		7227	5658	5167
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>500	67	43	32
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Γitanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	1
Aluminum	ppm	ASTM D5185m	>25	3	0	0
_ead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m		0	<1	<1
in	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				0
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	p p · · ·	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	80	64	72
Barium	ppm	ASTM D5185m	200	8	4	0
		ASTM D5185m	12	0	0	0
Molybdenum	ppm		12	U	U	U
langanasa	10 10 100	ACTM DE10Em		2	0	0
-	ppm	ASTM D5185m	10	3	3	2
Magnesium	ppm	ASTM D5185m	12	<1	<1	0
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	150	<1 47	<1 28	0 9
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	150 1650	<1 47 576	<1 28 529	0 9 567
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125	<1 47 576 18	<1 28 529 14	0 9 567 5
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	150 1650 125 22500	<1 47 576 18 18368	<1 28 529 14 18699	0 9 567 5 13984
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	150 1650 125 22500 limit/base	<1 47 576 18 18368	<1 28 529 14 18699 history1	0 9 567 5 13984 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	150 1650 125 22500 limit/base >75	<1 47 576 18 18368 current	<1 28 529 14 18699 history1	0 9 567 5 13984 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Godium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	150 1650 125 22500 limit/base >75 >170	<1 47 576 18 18368 current 20 <1	<1 28 529 14 18699 history1 11	0 9 567 5 13984 history2 10
Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	150 1650 125 22500 limit/base >75	<1 47 576 18 18368 current	<1 28 529 14 18699 history1	0 9 567 5 13984 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	150 1650 125 22500 limit/base >75 >170 >20 limit/base	<1 47 576 18 18368 current 20 <1 6 current	<1 28 529 14 18699 history1 11	0 9 567 5 13984 history2 10
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *Visual	150 1650 125 22500 limit/base >75 >170 >20 limit/base	<1 47 576 18 18368 current 20 <1 6 current	<1 28 529 14 18699 history1 11 0 5 history1 NONE	0 9 567 5 13984 history2 10 0 5 history2 MODER
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm	ASTM D5185m Method *Visual	150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE	<1 47 576 18 18368 current 20 <1 6 current NONE	<1 28 529 14 18699 history1 11 0 5 history1 NONE NONE	0 9 567 5 13984 history2 10 0 5 history2 MODER NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *Visual	150 1650 125 22500 limit/base >75 >170 >20 limit/base	<1 47 576 18 18368 current 20 <1 6 current NONE NONE	<1 28 529 14 18699 history1 11 0 5 history1 NONE	0 9 567 5 13984 history2 10 0 5 history2 MODER
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method *Visual	150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE	<1 47 576 18 18368 current 20 <1 6 current NONE	<1 28 529 14 18699 history1 11 0 5 history1 NONE NONE	0 9 567 5 13984 history2 10 0 5 history2 MODER NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Cellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE	<1 47 576 18 18368 current 20 <1 6 current NONE NONE	<1 28 529 14 18699 history1 11 0 5 history1 NONE NONE NONE	0 9 567 5 13984 history2 10 0 5 history2 MODER NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE NONE	<1 47 576 18 18368 current 20 <1 6 current NONE NONE NONE NONE	<1 28 529 14 18699 history1 11 0 5 history1 NONE NONE NONE NONE	0 9 567 5 13984 history2 10 0 5 history2 MODER NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE NONE NONE	<1 47 576 18 18368 current 20 <1 6 current NONE NONE NONE NONE NONE NONE NONE	<1 28 529 14 18699 history1 11 0 5 history1 NONE NONE NONE NONE NONE NONE NONE	0 9 567 5 13984 history2 10 0 5 history2 MODER NONE NONE NONE
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	150 1650 125 22500 limit/base >75 >170 >20 limit/base NONE NONE NONE NONE NONE	<1 47 576 18 18368	<1 28 529 14 18699 history1 11 0 5 NONE NONE NONE NONE NONE NONE NONE NO	0 9 567 5 13984 history2 10 0 5 history2 MODER NONE NONE NONE NONE NONE

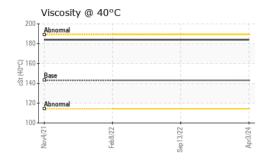
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scalar *Visual

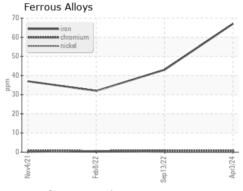


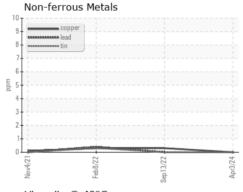
OIL ANALYSIS REPORT

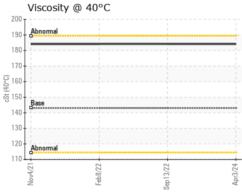


Visc @ 40°C cSt ASTM D445 143 184 184 184 SAMPLE IMAGES method limit/base current history1 history2 Color no image no image no image no image Bottom no image no image no image	FLUID PROPERTIES		method	limit/base	current	history1	history2
Color no image no image no image	Visc @ 40°C	cSt	ASTM D445	143	184	184	184
	SAMPLE IMAGES		method	limit/base	current	history1	history2
Bottom no image no image no image	Color				no image	no image	no image
	Bottom				no image	no image	no image

GRAPHS











Laboratory Sample No.

: WC0936953 Lab Number : 06174330 Unique Number : 11020383

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2024

Tested : 10 May 2024 Diagnosed

: 10 May 2024 - Wes Davis

5601 S 122ND E AVE TULSA, OK US 74146

MANHATTAN ROAD AND BRIDGE

Contact: BEN CALDWELL kevin.marson@wearcheck.com T: (918)728-5749

Certificate 12367

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)