

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **1926730** 

#### Component Rear Differential Fluid GEAR OIL SAE 75W90 (15 QTS)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

## Fluid Condition

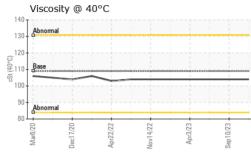
The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114131	PCA0106115	PCA0100730
Sample Date		Client Info		04 Dec 2023	10 Sep 2023	26 Jun 2023
Machine Age	mls	Client Info		269498	251889	232705
Oil Age	mls	Client Info		269498	251889	232705
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	123	115	108
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	9	8	8
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	3
Lead	ppm	ASTM D5185m	>25	0	1	0
Copper	ppm	ASTM D5185m	>100	3	3	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	330	279	319
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	<1	0
Manganese	ppm	ASTM D5185m		10	9	10
Magnesium	ppm	ASTM D5185m	12	<1	0	0
Calcium	ppm	ASTM D5185m	150	8	0	10
Phosphorus	ppm	ASTM D5185m	1650	1293	1333	1371
Zinc	ppm	ASTM D5185m	125	0	0	10
		AGTIM DUTOUIL	120		0	18
Sulfur	ppm	ASTM D5185m	22500	26045	23673	27029
Sulfur CONTAMINAN	ppm			-		
	ppm	ASTM D5185m	22500 limit/base	26045	23673	27029
CONTAMINAN	ppm TS	ASTM D5185m method	22500 limit/base	26045 current	23673 history1	27029 history2
CONTAMINAN <sup>®</sup> Silicon	ppm TS ppm	ASTM D5185m method ASTM D5185m	22500 limit/base >75	26045 current 20	23673 history1 21	27029 history2 17
CONTAMINAN <sup>®</sup> Silicon Sodium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	22500 limit/base >75	26045 current 20 8	23673 history1 21 9	27029 history2 17 9
CONTAMINAN Silicon Sodium Potassium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	22500 limit/base >75 >20	26045 current 20 8 3	23673 history1 21 9 2	27029 history2 17 9 1
CONTAMINAN Silicon Sodium Potassium VISUAL	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	22500 limit/base >75 >20 limit/base	26045 current 20 8 3 current	23673 history1 21 9 2 history1	27029 history2 17 9 1 history2
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm TS ppm ppm ppm scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	22500 limit/base >75 >20 limit/base NONE	26045 current 20 8 3 current NONE	23673 history1 21 9 2 history1 NONE	27029 history2 17 9 1 history2 NONE
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm TS ppm ppm ppm scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	22500 limit/base >75 >20 limit/base NONE NONE	26045 current 20 8 3 current NONE NONE	23673 history1 21 9 2 history1 NONE NONE	27029 history2 17 9 1 1 history2 NONE NONE
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm TS ppm ppm ppm scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	22500 limit/base >75 >20 limit/base NONE NONE NONE	26045 current 20 8 3 current NONE NONE NONE	23673 history1 21 9 2 history1 NONE NONE NONE	27029 history2 17 9 1 1 history2 NONE NONE NONE
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm TS ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual	22500 imit/base >75 >20 imit/base NONE NONE NONE NONE	26045 current 20 8 3 current NONE NONE NONE NONE	23673 history1 21 9 2 history1 NONE NONE NONE LIGHT	27029 history2 17 9 1 1 history2 NONE NONE NONE NONE NONE
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	22500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE	26045 current 20 8 3 current NONE NONE NONE NONE NONE NONE	23673 history1 21 9 2 history1 NONE NONE NONE LIGHT NONE	27029 history2 17 9 1 history2 NONE NONE NONE NONE NONE NONE
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	22500 limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	26045 current 20 8 3 current NONE NONE NONE NONE NONE NONE NONE	23673 history1 21 9 2 history1 NONE NONE LIGHT NONE LIGHT NONE NONE	27029 history2 17 9 1 history2 NONE NONE NONE NONE NONE NONE NONE
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	22500 imit/base >75 >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	26045 current 20 8 3 3 current NONE NONE NONE NONE NONE NONE NONE NON	23673 history1 21 9 2 history1 NONE NONE LIGHT NONE LIGHT NONE NONE NONE NONE	27029 history2 17 9 1 history2 NONE NONE NONE NONE NONE NONE NONE NON
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m Method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	22500 limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	26045 current 20 8 3 3 current NONE NONE NONE NONE NONE NONE NONE NON	23673 history1 21 9 2 history1 NONE NONE LIGHT NONE LIGHT NONE NORE NORML NORML	27029 history2 17 9 1 NONE NONE NONE NONE NONE NONE NONE NO



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FLUID PROPERTIES method



			Visc @ 40°C	cSt	ASTM D445	109	104	104	104
			SAMPLE IMA	AGES	method	limit/base	current	history1	history2
22 -	22	23	Color				no image	no image	no image
Apr22/22	Nov14/22	Apri3/23 Sep 10/23	Bottom				no image	no image	no image
			GRAPHS Ferrous Alloys	tals	Api3/23				
To di			e : FLEET , contact Customer Se	Recieve Diagnos Diagnos	d : 15 sed : 20 stician : Jon 800-237-136	Dec 2023 Dec 2023 athan Heste 9.	r		SAVANAH RD RGETOWN, DE US 19947 T LOCKWOOD
			are outside of the ISC				CCM 106-2012	2)	T: F'

\* - Denotes test m Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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