

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# 38 MAIN 16743

Gearbox

GEAR OIL (PAO) ISO 220 (--- GAL)

## 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 oil.

## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

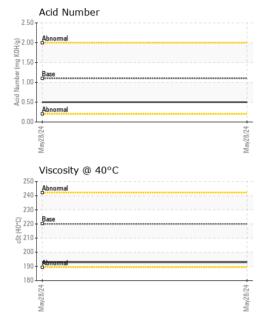
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06203492		
Sample Date		Client Info		28 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>200	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	0		
Barium	ppm	ASTM D5185m	12	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	25	<1		
Calcium	ppm	ASTM D5185m	25	0		
Phosphorus	ppm	ASTM D5185m	375	130		
Zinc	ppm	ASTM D5185m	25	0		
Sulfur	ppm	ASTM D5185m	4900	5985		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

0.50

Acid Number (AN) mg KOH/g ASTM D8045 1.10



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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	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	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	ΓIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	193		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS			·			
Iron (ppm)			201	Lead (ppm)		
Severe			200	Severe		
00 Abnormal			톮100	Abnormal		
				T		
			+			4
						wy28/24 *-
May28/24			May28/24	May28/24		May28/24
Aluminum (ppm)				Chromium (p	pm)	May28/24 +
Aluminum (ppm)			May28/24	Chromium (p	pm)	May28/24
Aluminum (ppm)			May28/24	Chromium (p	pm)	May28/24
Aluminum (ppm)			30 May 28/24	Chromium (p	pm)	
Aluminum (ppm)  Severe Abnormal			May28/24	Chromium (p		May28/24
Aluminum (ppm)  Severe Abnormal  Copper (ppm)			May28/24 May28/24	Chromium (p		
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)			42/80/24 May/28/24	Chromium (p		
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)			May28/24 May28/24	Chromium (p  Severe  Silicon (ppm)		
Aluminum (ppm) Severe Abnormal Copper (ppm) Severe Abnormal			33 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Chromium (p Severe Abnormal  5082/sew Silicon (ppm) Severe		May28/24
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal			33 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Chromium (p Severe Abnormal  5082/sew Silicon (ppm) Severe		May28/24
Aluminum (ppm)  Severe  Abnomal  Copper (ppm)  Severe  Abnomal  Viscosity @ 40°C			33 20 4 10 mdd 11 10 10 10 10 10 10 10 10 10 10 10 10	Chromium (p  Severe  Abnormal  Silicon (ppm)  Severe  Abnormal  Abnormal  Abnormal  Acid Number		
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal  Viscosity @ 40°C			33 20 4 10 mdd 11 10 10 10 10 10 10 10 10 10 10 10 10	Chromium (p  Severe  Abnormal  Acid Number		May28/24
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe  Abnormal  Viscosity @ 40°C			33 20 4 10 mdd 11 10 10 10 10 10 10 10 10 10 10 10 10	Chromium (p  Severe  Abnormal  Abnormal  Acid Number  Abnormal  Abnormal  Acid Number		May28/24
Aluminum (ppm)  Severe  Ahnomal  Copper (ppm)  Severe  Ahnomal  Viscosity @ 40°C			33 20 4 10 mdd 11 10 10 10 10 10 10 10 10 10 10 10 10	Chromium (p Severe  Abnormal  Acid Number  Abnormal  Abnormal  Basee  Abnormal		May28/24
Aluminum (ppm)  Severe Abnormal  Copper (ppm)  Severe Abnormal  Viscosity @ 40°C			33 22 25 25 26 24 26 26 26 26 26 26 26 26 26 26 26 26 26	Chromium (p Severe Abnormal  Abnormal		May28/24
Aluminum (ppm)  Severe  Abnormal  Copper (ppm)  Severe Abnormal  Viscosity @ 40°C			33 20 4 10 mdd 11 10 10 10 10 10 10 10 10 10 10 10 10	Chromium (p Severe  Abnormal  Acid Number  Abnormal  Abnormal  Basee  Abnormal		May28/24





Certificate 12367

Laboratory Sample No.

: WC06203492 Lab Number : 06203492 Unique Number : 11070953

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 07 Jun 2024 Tested : 11 Jun 2024 Diagnosed

: 12 Jun 2024 - Angela Borella

Test Package : MOB 2 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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