

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

# Machine Id 38 CO 16744

Gearbox Fluid {not provided} (--- 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.

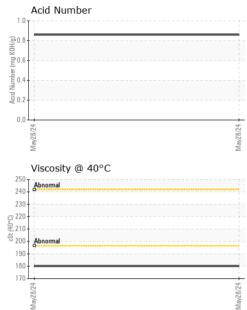
#### Fluid Condition

Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	<b>NATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06203493		
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		
CONTAMINATION		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	6		
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	9		
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		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		251		
Zinc	ppm	ASTM D5185m		12		
Sulfur	ppm	ASTM D5185m		11528		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.86		



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		method	limit/base	е	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		
	scalar	*Visual	>0.2		NEG		
Free Water	scalar	*Visual			NEG		
FLUID PROPER	TIES	method	limit/base	e	current	history1	history2
Visc @ 40°C	cSt	ASTM D445			180		
SAMPLE IMAGE	S	method	limit/base	e	current	history1	history2
Color					no image	no image	no image
Bottom					no image	no image	no image
GRAPHS					I		
Iron (ppm)					_ead (ppm)		
Courses					Severe		
Abnormal			udd	100-	Abnormal		
0				оL			
/28/2			/28/21	080	2 10 2		
—			Ma				
				20		om)	
Severe				l d	Severe		
Abnormal				10-6	Abnormal		
				٥Ļ	-		
/28/2			/28/21	10180			
			May				
				1 5 0			
Courses				100	Severe		
Abnormal			udd	50 - d	Abnormal		
428/24			y28/24	0 78/74	14.00.6.1		
≦ Viscosity @ 40°C							:
abnormal			a Koł	<sup>1.0</sup>			
다. 아마 Abnormal 아마 2000 - Abnormal 장			ber (m	0.5			
100			Num	0.0			
			May28/24 - Acid	Mav28/74	1.7/0		
May28/24							
	Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Fluid PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Iron (ppm) Graphic Anormal Copper (ppm) Graphic Copper (ppm) Graphic Copper (ppm)	Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Iron (ppm) GRAPHS Iron (ppm) Aluminum (ppm) Copper (ppm) Gevere Anormal Copper (ppm) Gevere Anormal Copper (ppm)	Debris scalar *Visual Sand/Dirt scalar *Visual Appearance scalar *Visual Emulsified Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual FLUID PROPERTIES method Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method Color Bottom GRAPHS Iron (ppm) Grammal Aluminum (ppm) Grammal Copper (ppm) Grammal Copper (ppm) Grammal Copper (ppm) Grammal Copper (ppm) Copper (ppm)	Debris scalar *Visual NONE Sand/Dirt scalar *Visual NORML Appearance scalar *Visual NORML Emulsified Water scalar *Visual >0.2 Free Water scalar *Visual >0.2 Free Water scalar *Visual FLUID PROPERTIES method limit/bas Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method limit/bas Color Bottom GRAPHS Iron (ppm) Good for the second state of the second state	Debris  scalar  *Visual  NONE    Sand/Dirt  scalar  *Visual  NONE    Appearance  scalar  *Visual  NORML    Odor  scalar  *Visual  NORML    Odor  scalar  *Visual  NORML    Emulsified Water  scalar  *Visual  >0.2    Free Water  scalar  *Visual  >0.2    FLUID PROPERTIES  method  imit/base    Visc @ 40°C  cSt  ASTM D445    SAMPLE IMAGES  method  imit/base    Color  Iron (ppm)	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  NORML  NORML    Free Water  scalar  *Visual  >0.2  NEG    FLUID PROPERTIES  method  limit/base  current    Visc @ 40°C  cSt  ASTM D445  180    SAMPLE IMAGES  method  limit/base  current    Color  no image  no image    GRAPHS  Iron (ppm)	Debris  scalar  *Visual  NONE     Sand/Dirt  scalar  *Visual  NONE     Appearance  scalar  *Visual  NORML  NORML     Odor  scalar  *Visual  NORML  NORML     Odor  scalar  *Visual  NORML  NORML     Emulsified Water  scalar  *Visual  NORML  NORML     Free Water  scalar  *Visual  >0.2  NEG     FLUID PROPERTIES  method  imit/base  current  history1    Visc @ 40°C  cSt  ASTM D445  180     SAMPLE IMAGES  method  imit/base  current  history1    Color  no image  no image  no image  no image    Bottom  and  and  and  and  and  and    upper and  and  and  and  and  and  and  and    GRAPHS  and  and  and  and  and  and  <

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