

# **OIL ANALYSIS REPORT**

[SAMPLE 1] **PRIMARY 5 MAIN HOUSING** 

Gearbox

GEAR OIL ISO 460 (--- GAL)

# Sample Rating Trend **NORMAL**

## DIAGNOSIS

#### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 460. Please confirm.

NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

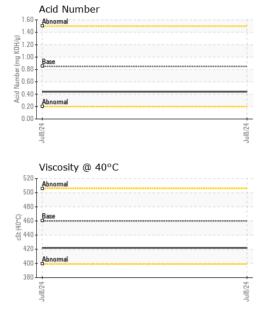
### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCAI2002722		
Sample Date		Client Info		08 Jul 2024		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	8		
Chromium	ppm	ASTM D5185m	>15	<1		
Nickel	ppm	ASTM D5185m	>15	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>100	0		
Copper	ppm	ASTM D5185m	>200	<1		
Tin	ppm	ASTM D5185m	>25	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0		
Barium	ppm	ASTM D5185m	15	0		
Molybdenum	ppm	ASTM D5185m	15	2		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	50	3		
Calcium	ppm	ASTM D5185m	50	0		
Phosphorus	ppm	ASTM D5185m	350	202		
Zinc	ppm	ASTM D5185m	100	3		
Sulfur	ppm	ASTM D5185m	12500	13722		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	1		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.44		



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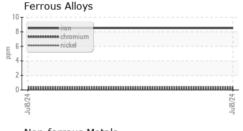


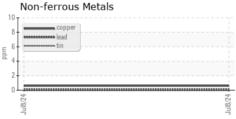
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

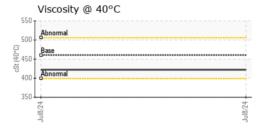
I LOID I HOI LITTIL	_O IIICIIIOU			
Visc @ 40°C cSt	ASTM D445	460	422	 

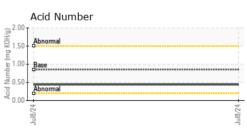
SAMPLE IMAGE		HISTORY	HISTORYZ
Color		no image	no image
Bottom		no image	no image
CDADUC			

#### GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : IND 2

Lab Number : 06230306

: PCAI2002722 Unique Number : 11113799

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Jul 2024 **Tested** Diagnosed

: 09 Jul 2024 : 09 Jul 2024 - Wes Davis

LOWELL REGIONAL WASTE WATER UTILITY

451 FIRST ST BLVD, ROUTE 110 LOWELL, MA US 01850

Contact: FRED HAMEL fhamel@lowellma.gov T: (978)606-8483

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)

Contact/Location: FRED HAMEL - LOWLOWMA

F: (978)441-9578