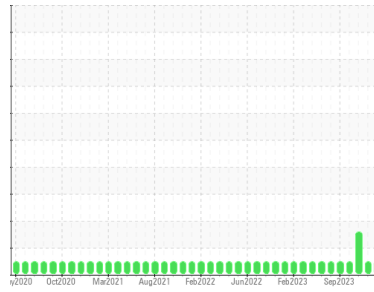




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**CRM74**

Machine Id

**CRM 74 GEAR LUBRICATION MAIN TANK (S/N 16-2400-1030)**

Component

**Tank Bulk Fluid Tank**

Fluid

**GEAR OIL ISO 320 (2510 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0044094</b>	RP0042572	RP0039190
Sample Date	Client Info		<b>24 Jun 2024</b>	21 Feb 2024	22 Jan 2024
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>30</b>	28	---
Iron	ppm	ASTM D5185m	<b>51</b>	42	41
Chromium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Lead	ppm	ASTM D5185m	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<b>8</b>	8
Barium	ppm	ASTM D5185m	15	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	15	<b>0</b>	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1
Magnesium	ppm	ASTM D5185m	50	<b>0</b>	1
Calcium	ppm	ASTM D5185m	50	<b>9</b>	9
Phosphorus	ppm	ASTM D5185m	350	<b>218</b>	187
Zinc	ppm	ASTM D5185m	100	<b>14</b>	9

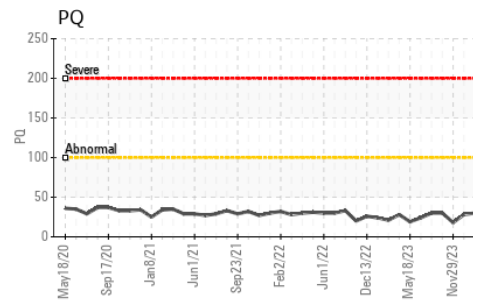
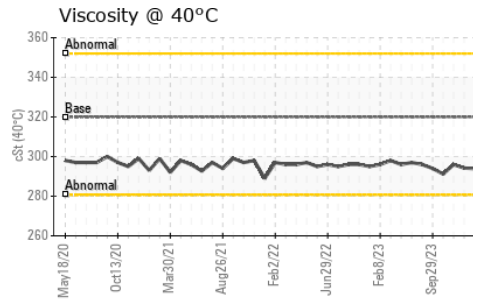
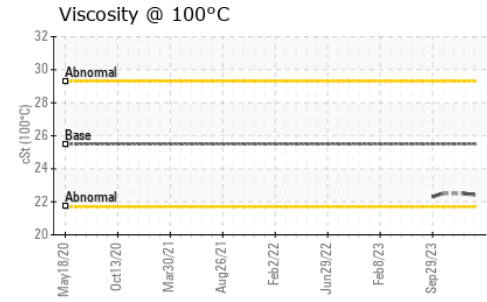
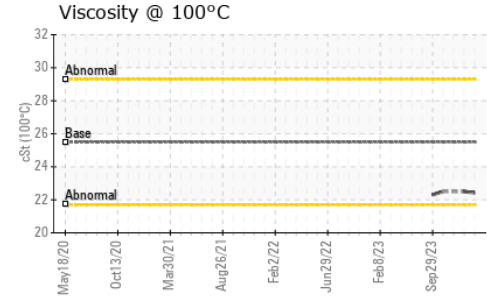
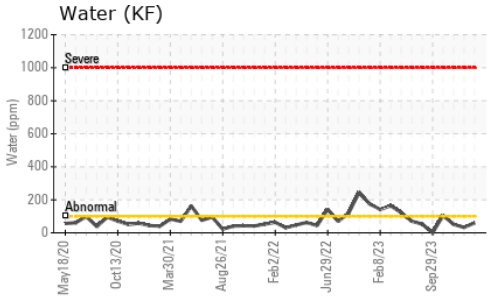
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<b>&lt;1</b>	<1
Sodium	ppm	ASTM D5185m		<b>1</b>	1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1
Water	%	ASTM D6304		<b>0.005</b>	0.003
ppm Water	ppm	ASTM D6304		<b>60</b>	33

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.61</b>	0.57

# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	293.9	294.2
Visc @ 100°C	cSt	ASTM D445	25.5	22.43	22.49
Viscosity Index (VI)	Scale	ASTM D2270	103	93	93

**SAMPLE IMAGES**

method	limit/base	current	history1	history2
Color				
Bottom				

**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0044094 **Received** : 25 Jun 2024  
**Lab Number** : 06220248 **Tested** : 28 Jun 2024  
**Unique Number** : 11098445 **Diagnosed** : 28 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KV100, PQ, VI )

**OUTOKUMPU STAINLESS USA**  
 HWY 43 N  
 CALVERT, AL 36513  
 Contact: MARIO JOHNSON  
 Mario.johnson@outokumpu.com  
 T: (251)321-4105  
 F: x:

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)