



# OIL ANALYSIS REPORT

Sample Rating Trend



OFF SPEC

Area  
**{UNASSIGNED}**  
Machine Id  
**MB1 (S/N 0000)**  
Component  
**Assembly**  
Fluid  
**{not provided} (--- GAL)**

## 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. We advise that you check all areas where contaminants can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

The odor of the sample indicates contamination with a solvent. Gas Chromatography indicates the presence of a low boiling point products present in the sample.

### Fluid Condition

Viscosity of sample indicates oil is within SAE 0W30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>CB0031829</b>	---	---
Sample Date	Client Info			<b>17 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m)		<b>23</b>	---	---
Chromium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)		<b>4</b>	---	---
Lead	ppm	ASTM D5185(m)		<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)		<b>1</b>	---	---
Tin	ppm	ASTM D5185(m)		<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

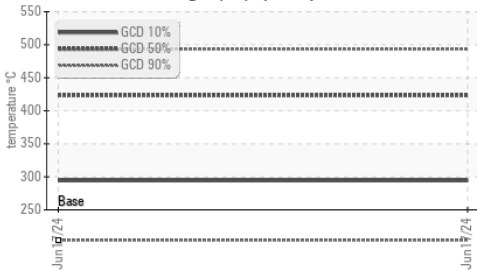
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>54</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>53</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>3</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>769</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1374</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>770</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>859</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>1804</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<b>8</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---

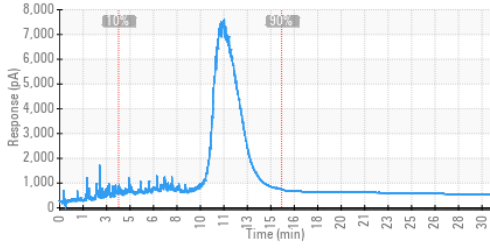
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*		<b>16.5</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*		<b>20.8</b>	---	---

# OIL ANALYSIS REPORT

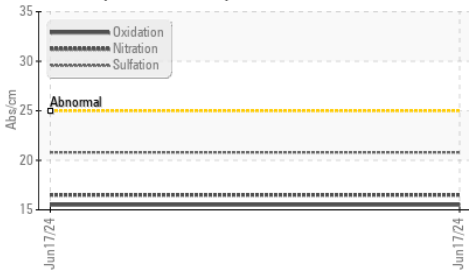
## Gas Chromatography (GCD)



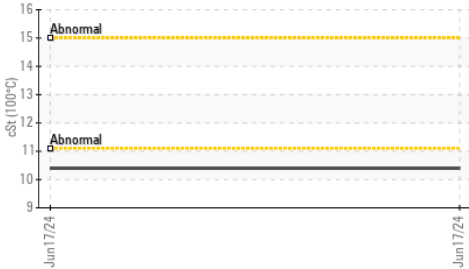
## GCD Spectrum



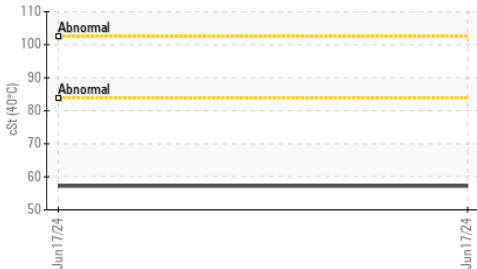
## FT-IR (Direct Trend)



## Viscosity @ 100°C



## Viscosity @ 40°C



FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	<b>15.5</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>3.89</b>	---	---

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>57.2</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	<b>10.4</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	<b>173</b>	---	---

SIMULATED DISTILLATION (GCD)	method	limit/base	current	history1	history2
(GCD) % < 335°C	°C	ASTM D2887*	<b>13.29</b>	---	---
(GCD) Initial Boiling Point	°C	ASTM D2887*	122	<b>139.9</b>	---
(GCD) 5% Distillation Point	°C	ASTM D2887*		<b>228.6</b>	---
(GCD) 10% Distillation Point	°C	ASTM D2887*	157	<b>294.2</b>	---
(GCD) 20% Distillation Point	°C	ASTM D2887*		<b>391.8</b>	---
(GCD) 30% Distillation Point	°C	ASTM D2887*		<b>406.3</b>	---
(GCD) 40% Distillation Point	°C	ASTM D2887*		<b>415.0</b>	---
(GCD) 50% Distillation Point	°C	ASTM D2887*	204	<b>423.3</b>	---
(GCD) 60% Distillation Point	°C	ASTM D2887*		<b>432.3</b>	---
(GCD) 70% Distillation Point	°C	ASTM D2887*		<b>443.0</b>	---
(GCD) 80% Distillation Point	°C	ASTM D2887*		<b>457.5</b>	---
(GCD) 90% Distillation Point	°C	ASTM D2887*		<b>493.3</b>	---
(GCD) FBP% Distillation Point	°C	ASTM D2887*	322	<b>587.9</b>	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CB0031829  
**Lab Number** : **02642570**  
**Unique Number** : 5800109  
**Test Package** : IND 2 ( Additional Tests: FT-IR, GCD, KV100, TAN Man, VI )

**Received** : 18 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

**Owens Corning Celfortec LP**  
 542, rue Gaetan  
 Salaberry de Valleyfield, QC  
 CA J6S 0A7  
 Contact: Hugo Duguay  
 hugo.duguay@owenscorning.com  
 T: (450)377-1725 E X:T 7531  
 F: (450)377-2973