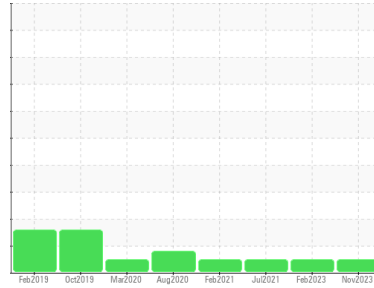


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**075 G4 [2994724]**

Machine Id  
**B1 Blower**

Component  
**Outboard Bearing**

Fluid  
**SHELL CORENA S4 R46 (--- QTS)**

### DIAGNOSIS

#### Recommendation

No action required at this time. Resample at next normal interval.

#### Wear

Wear particles are low and acceptable.

#### Contamination

Contamination is on par with new unfiltered oil.

#### Fluid Condition

Fluid health indicators are acceptable for continued use.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PLS0000679</b>	PLS0000661	PLS0000323
Sample Date	Client Info			<b>03 Nov 2023</b>	28 Feb 2023	07 Jul 2021
Machine Age	mths	Client Info		<b>24</b>	8	0
Oil Age	mths	Client Info		<b>8</b>	8	0
Oil Changed	Client Info			<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>2	<b>NEG</b>	NEG	NEG

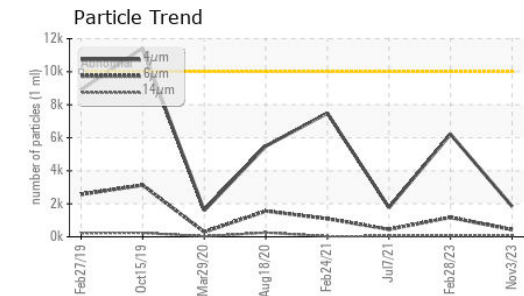
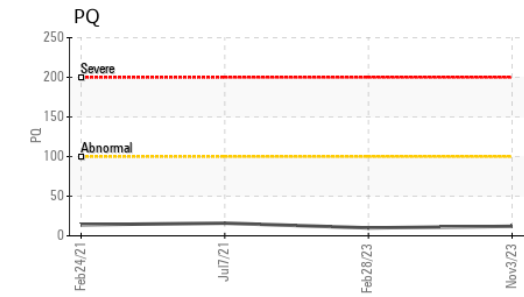
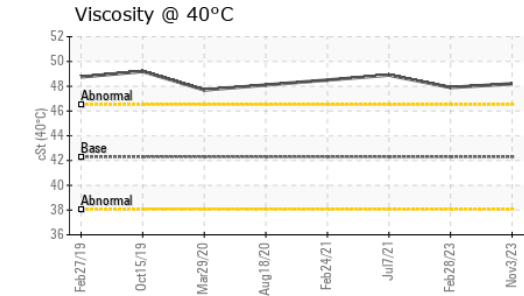
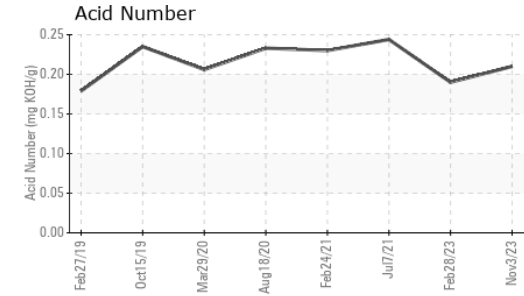
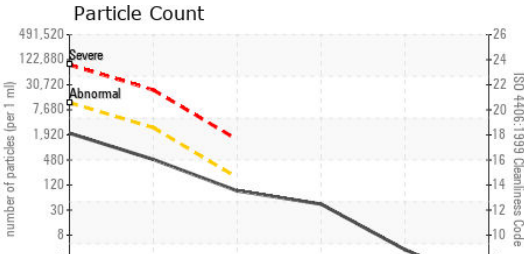
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>12</b>	10	16
Iron	ppm	ASTM D5185m	>20	<b>0</b>	2	<1
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Phosphorus	ppm	ASTM D5185m		<b>79</b>	68	88
Zinc	ppm	ASTM D5185m		<b>0</b>	10	0
Sulfur	ppm	ASTM D5185m		<b>162</b>	157	194

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>0</b>	1	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624		<b>4.3</b>	4.5	4.9
Sulfation	Abs./1mm	*ASTM D7415		<b>8.5</b>	8.5	8.9

# OIL ANALYSIS REPORT



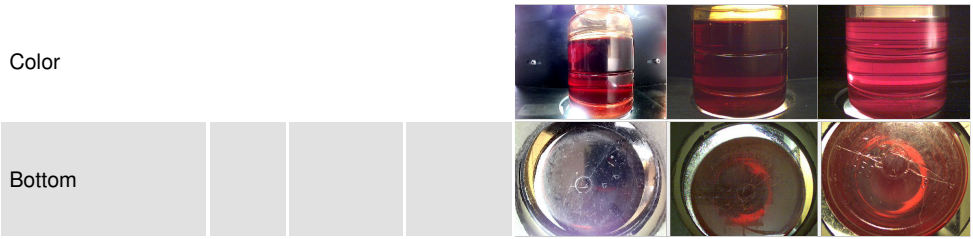
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>1846</b>	6213	1770
Particles >6µm	ASTM D7647	>2500	<b>434</b>	1176	447
Particles >14µm	ASTM D7647	>160	<b>77</b>	64	41
Particles >21µm	ASTM D7647	>40	<b>37</b>	16	15
Particles >38µm	ASTM D7647	>10	<b>3</b>	0	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>18/16/13</b>	20/17/13	18/16/13

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414		<b>3.1</b>	3.4	3.9
Acid Number (AN)	mg KOH/g ASTM D8045		<b>0.21</b>	0.19	0.244

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar *Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar *Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar *Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar *Visual	>2	<b>NEG</b>	NEG	NEG
Free Water	scalar *Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	42.3	<b>48.2</b>	47.9	48.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PLS0000679  
**Lab Number** : 06006263  
**Unique Number** : 10740025  
**Test Package** : IND 2 ( Additional Tests: FT-IR, PQ, PrtCount )

**HEXION INC - GONZALES PLANT**  
 4338 HWY 73  
 GEISMAR, LA  
 US 70734  
 Contact: Shannon Ourso  
 shannon.ourso@hexion.com;mike.johnson@amrri.com

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)