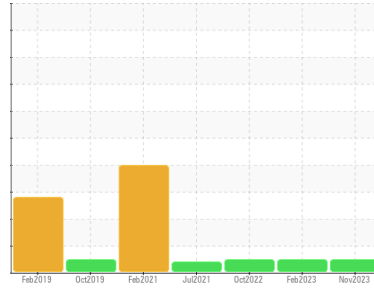


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
075 G4 [2994724]
Machine Id
B2 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 is acceptable for continued use.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PLS0000677	PLS0000666	PLS0000556
Sample Date	Client Info			03 Nov 2023	28 Feb 2023	07 Oct 2022
Machine Age	yrs	Client Info		10	10	0
Oil Age	yrs	Client Info		1	1	0
Oil Changed	Client Info			N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

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

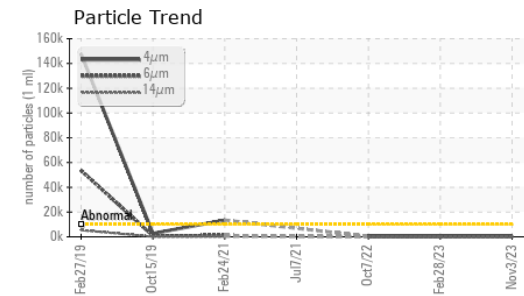
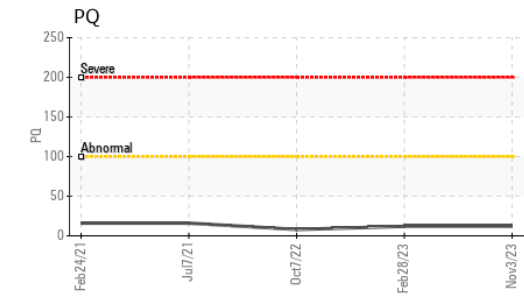
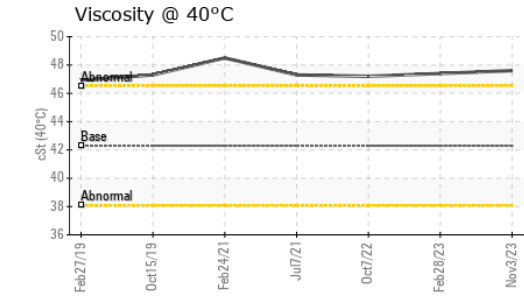
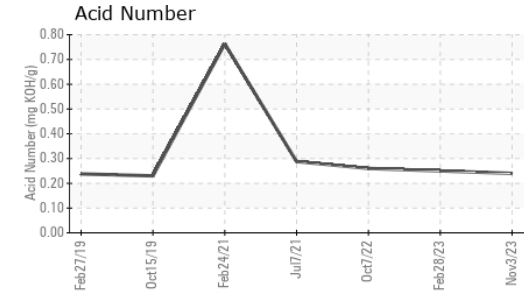
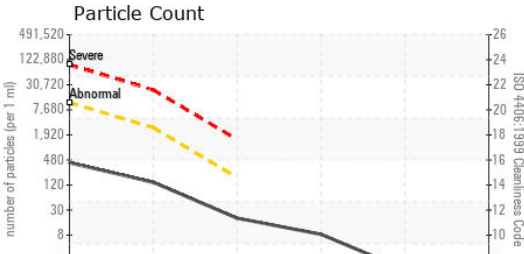
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	12	8
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	<1	0	0
Antimony	ppm	ASTM D5185m		---	---	---
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		<1	0	<1
Phosphorus	ppm	ASTM D5185m		95	85	88
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		207	165	243

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

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		4.4	4.6	5.1
Sulfation	Abs./1mm	*ASTM D7415		8.4	8.4	8.9

OIL ANALYSIS REPORT



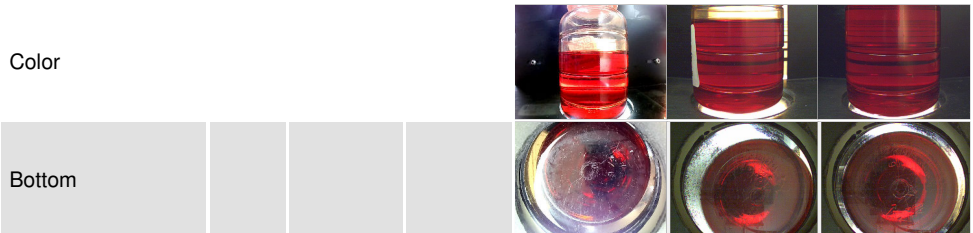
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	363	305	328
Particles >6µm	ASTM D7647	>2500	123	101	104
Particles >14µm	ASTM D7647	>160	17	9	10
Particles >21µm	ASTM D7647	>40	7	3	2
Particles >38µm	ASTM D7647	>10	1	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	16/14/11	15/14/10	16/14/10

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414		3.1	3.3	3.6
Acid Number (AN)	mg KOH/g ASTM D8045		0.24	0.25	0.26

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	42.3	47.6	47.4	47.2

SAMPLE IMAGES



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000677 **Received** : 13 Nov 2023
Lab Number : **06006261** **Diagnosed** : 27 Nov 2023
Unique Number : 10740023 **Diagnostician** : Mike Johnson
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
 T:
 F:

Certificate L2367
 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)