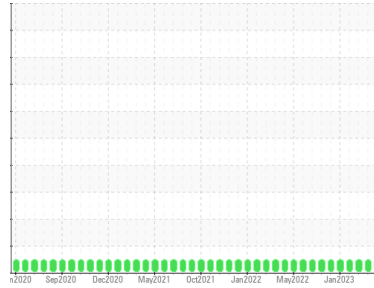




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**BULK ZOK - SHELL MYSELLA SAE 40**

Component  
**New (Unused) Oil**

Fluid  
**SHELL SHELL MYSELLA S3 N 40 (--- GAL)**

## DIAGNOSIS

### Recommendation

This is a baseline read-out on the submitted sample.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0775396</b>	WC0770250	WC0770227
Sample Date	Client Info			<b>02 Jun 2023</b>	06 May 2023	14 Apr 2023
Machine Age	hrs	Client Info		<b>77881</b>	67388	0
Oil Age	hrs	Client Info		<b>67388</b>	67388	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

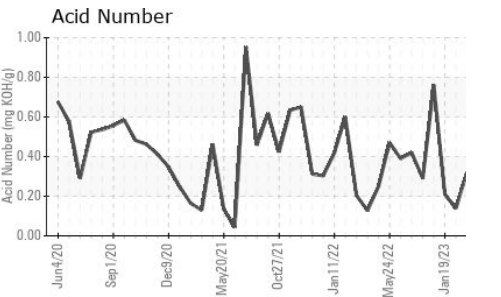
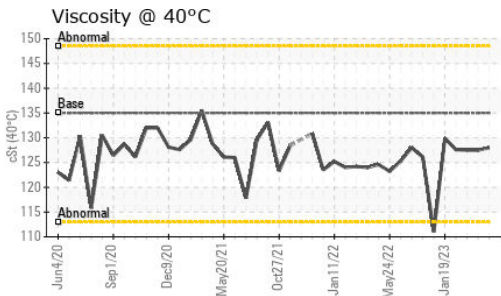
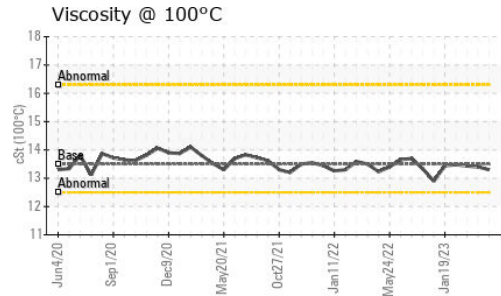
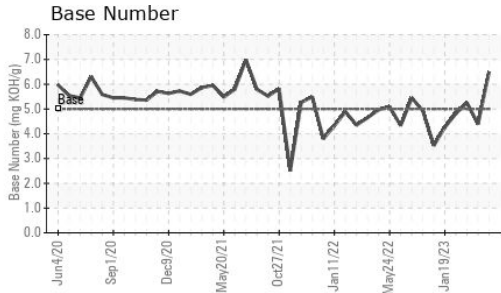
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	2	<1
Silver	ppm	ASTM D5185m	>5	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	1
Lead	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>2</b>	0	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>0</b>	0	2
Magnesium	ppm	ASTM D5185m		<b>8</b>	7	15
Calcium	ppm	ASTM D5185m		<b>1334</b>	1312	1345
Phosphorus	ppm	ASTM D5185m		<b>260</b>	264	283
Zinc	ppm	ASTM D5185m		<b>334</b>	338	335
Sulfur	ppm	ASTM D5185m		<b>2886</b>	2846	3085

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>7</b>	7	9
Sodium	ppm	ASTM D5185m		<b>0</b>	<1	1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>---</b>	0	---
Nitration	Abs/cm	*ASTM D7624		<b>---</b>	2.8	---
Sulfation	Abs/.1mm	*ASTM D7415		<b>---</b>	15.9	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		<b>---</b>	10.1	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.132</b>	0.121	0.32
Base Number (BN)	mg KOH/g	ASTM D2896	5	<b>6.50</b>	4.39	5.25

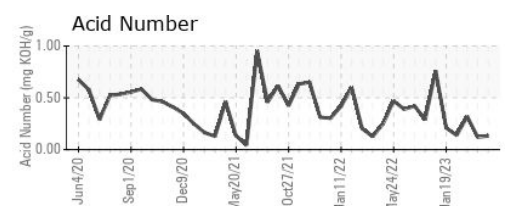
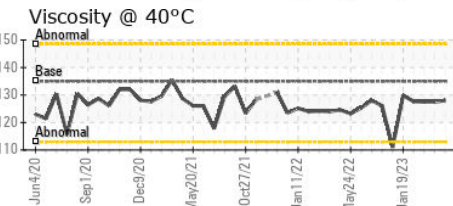
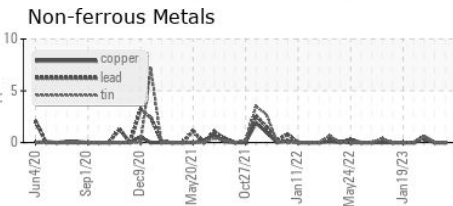
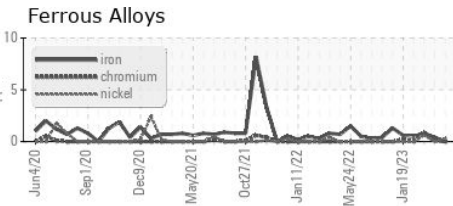


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	135	<b>128.0</b>	127.5
Visc @ 100°C	cSt	ASTM D445	13.5	<b>13.3</b>	13.4
Viscosity Index (VI)	Scale	ASTM D2270	94	<b>97</b>	99

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0775396 **Received** : 05 Jun 2023  
**Lab Number** : 05864808 **Diagnosed** : 07 Jun 2023  
**Unique Number** : 10499273 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI )

**EDL NA Recips-Zook**  
 Zook Powerstation, 388 E. Main Street  
 Leola, PA  
 US 17540-1925  
 Contact: Kevin Johnson  
 kevin.johnson@edlenergy.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)