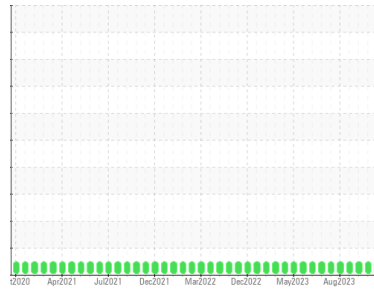




OIL ANALYSIS REPORT

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			WC0675541	WC0675539	WC0675536
Sample Date	Client Info			20 Nov 2023	30 Oct 2023	12 Oct 2023
Machine Age	hrs Client Info			77881	77881	77881
Oil Age	hrs Client Info			100	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

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

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

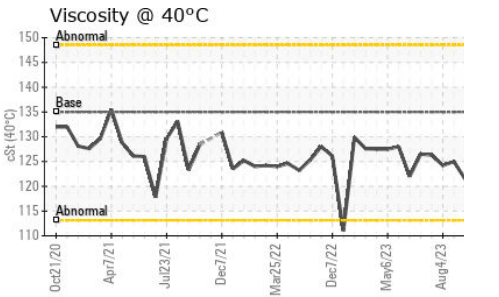
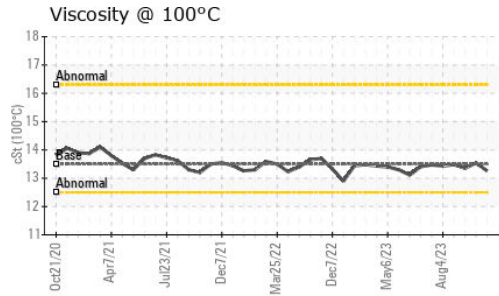
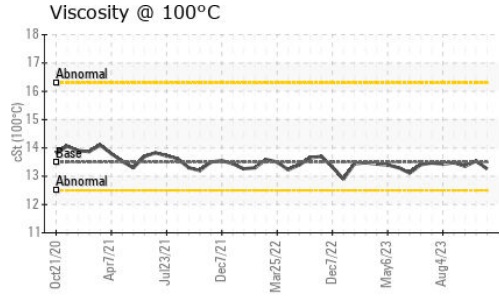
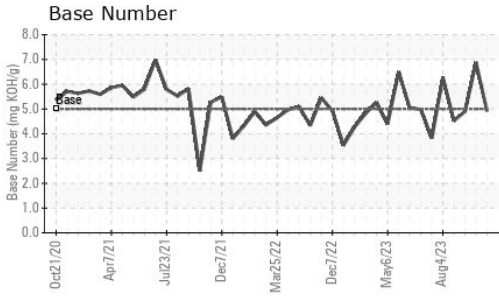
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	3	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	4
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		10	6	<1
Calcium	ppm	ASTM D5185m		1374	1332	1357
Phosphorus	ppm	ASTM D5185m		295	280	293
Zinc	ppm	ASTM D5185m		336	340	325
Sulfur	ppm	ASTM D5185m		2869	4197	2622

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	6	7
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		---	0	---
Nitration	Abs/cm	*ASTM D7624		---	2.8	---
Sulfation	Abs/.1mm	*ASTM D7415		---	16.1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		---	10.3	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.514	0.30	0.653
Base Number (BN)	mg KOH/g	ASTM D2896	5	4.91	6.88	4.90

OIL ANALYSIS REPORT

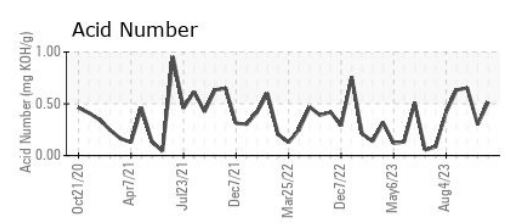
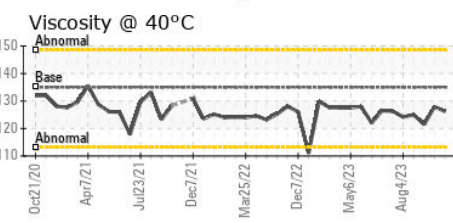
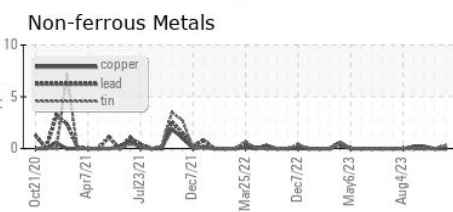
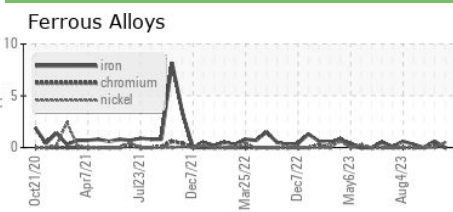


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	126.2	127.9
Visc @ 100°C	cSt	ASTM D445	13.5	13.26	13.54
Viscosity Index (VI)	Scale	ASTM D2270	94	99	101

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0675541 **Received** : 24 Nov 2023
Lab Number : 06016945 **Diagnosed** : 28 Nov 2023
Unique Number : 10756089 **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. T:
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F:
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)