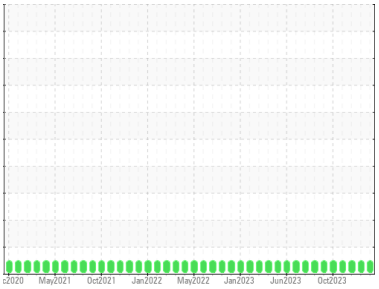
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
BULK ZOK - SHELL MYSELLA SAE 40
Component
New (Unused) Oil
Fluid
SHELL SHELL MYSELLA S3 N 40 (600 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		**WC0775208**	WC0675551	WC0675541
Sample Date		Client Info		**19 Mar 2024**	03 Jan 2024	20 Nov 2023
Machine Age	hrs	Client Info		**1**	77881	77881
Oil Age	hrs	Client Info		**1**	1	100
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**	0	0
Nickel	ppm	ASTM D5185m	>5	**0**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>5	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>5	**2**	2	2
Lead	ppm	ASTM D5185m	>5	**0**	0	0
Copper	ppm	ASTM D5185m	>5	**0**	<1	0
Tin	ppm	ASTM D5185m	>5	**0**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	4	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	2	<1
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**0**	25	10
Calcium	ppm	ASTM D5185m		**1324**	1423	1374
Phosphorus	ppm	ASTM D5185m		**222**	300	295
Zinc	ppm	ASTM D5185m		**310**	374	336
Sulfur	ppm	ASTM D5185m		**2850**	2832	2869

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

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

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**---**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.19**	0.73	0.514
Base Number (BN)	mg KOH/g	ASTM D2896	5	**4.78**	4.76	4.91

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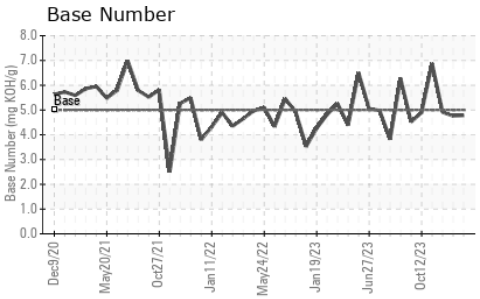
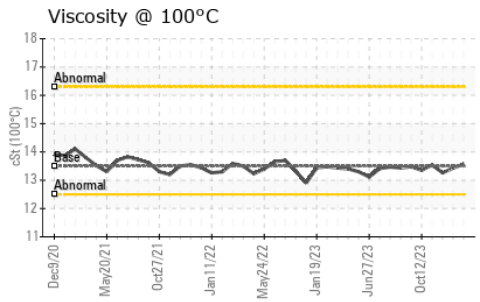
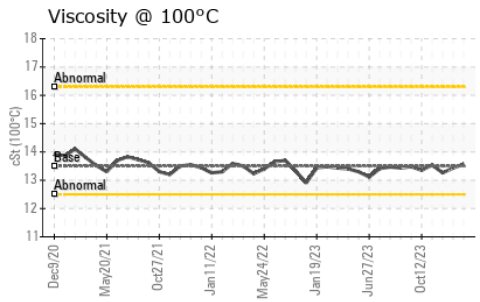
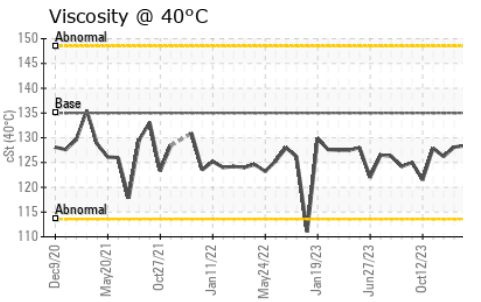






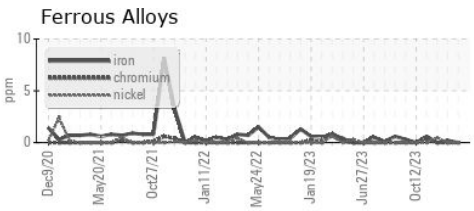


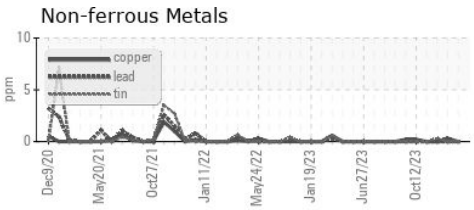
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Sand/Dirt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

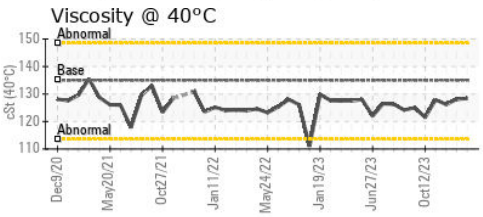
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	135	**128.4**	128.1	126.2
Visc @ 100°C	cSt	ASTM D445	13.5	**13.57**	13.43	13.26
Viscosity Index (VI)	Scale	ASTM D2270	94	**100**	99	99

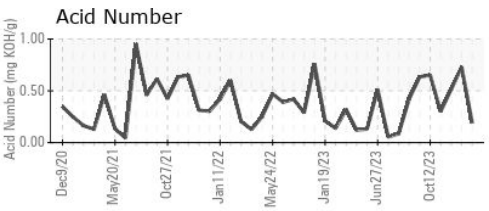
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0775208 **Received** : 21 Mar 2024
Lab Number : 06125283 **Tested** : 26 Mar 2024
Unique Number : 10939434 **Diagnosed** : 26 Mar 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI)

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)

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

Report Id: EDLLEO [WUSCAR] 06125283 (Generated: 03/26/2024 15:14:43) Rev: 1

Submitted By: Jayme Hinnershitz