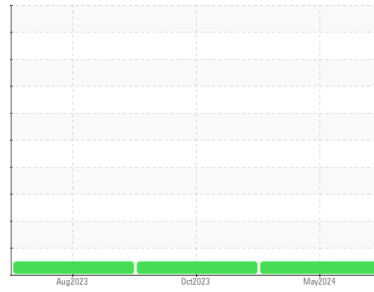




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
MAHLER Q8 40WT
 Component
New (Unused) Oil
 Fluid
{not provided} (--- 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			WC0880278	WC0660925	WC0660879
Sample Date	Client Info			08 May 2024	31 Oct 2023	24 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		7	8	9
Calcium	ppm	ASTM D5185m		2400	2253	2262
Phosphorus	ppm	ASTM D5185m		395	393	415
Zinc	ppm	ASTM D5185m		454	441	449
Sulfur	ppm	ASTM D5185m		2744	2256	2705

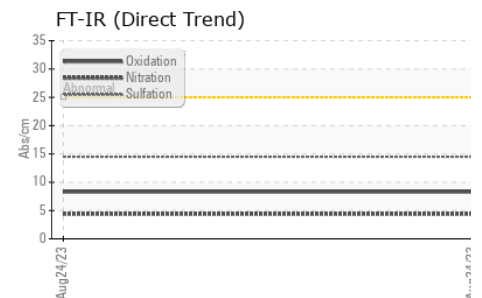
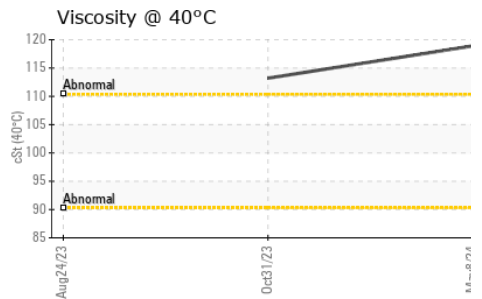
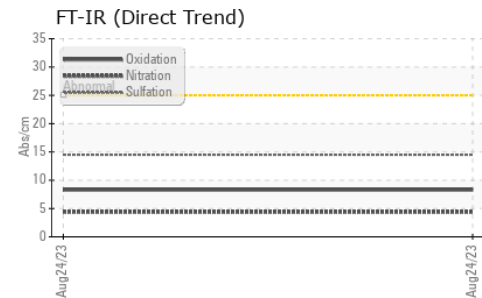
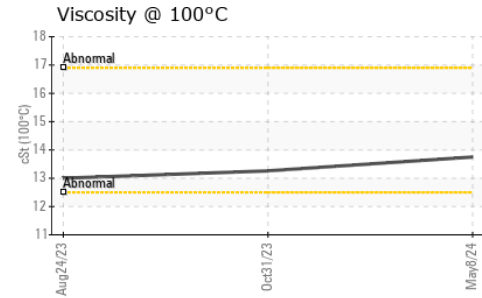
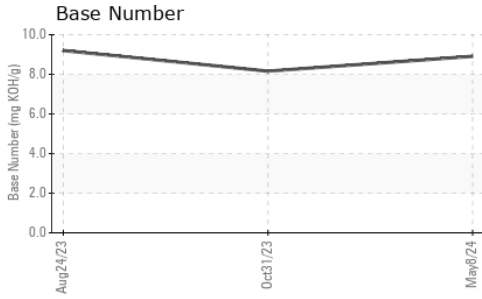
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		2	3	6
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304		NEG	NEG	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		---	---	0
Nitration	Abs/cm	*ASTM D7624		---	---	4.4
Sulfation	Abs/.1mm	*ASTM D7415		---	---	14.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		---	---	8.3
Acid Number (AN)	mg KOH/g	ASTM D8045		0.972	0.17	0.982
Base Number (BN)	mg KOH/g	ASTM D2896		8.91	8.16	9.20



OIL ANALYSIS REPORT



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	118.9	113.2	---
Visc @ 100°C	cSt	ASTM D445	13.75	13.26	13.0
Viscosity Index (VI)	Scale	ASTM D2270	113	112	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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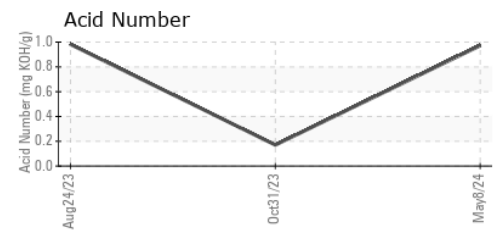
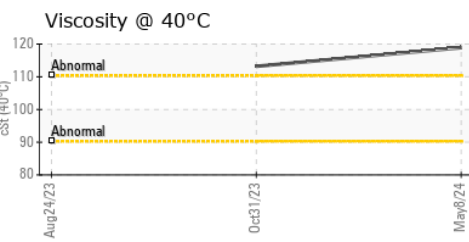
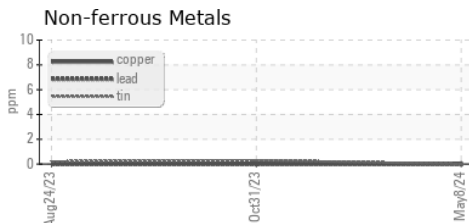
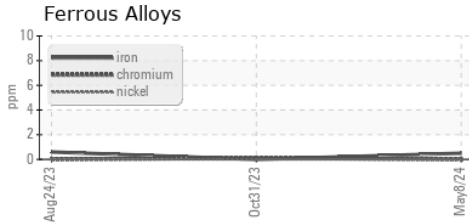
Color

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Bottom

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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0880278
Lab Number : 06177646
Unique Number : 11023699
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, TBN, VD)

BI-COUNTY
 3214 DOVER RD
 WOODLAWN, TN
 US 37191

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)