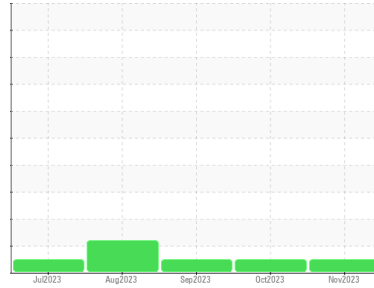


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**MRC-298**

Component  
**Compressor**

Fluid  
**LO-ASH ENGINE OIL SAE 40 (--- GAL)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

**Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>TO60001718</b>	TO60001648	TO60001433
Sample Date	Client Info			<b>04 Nov 2023</b>	12 Oct 2023	05 Sep 2023
Machine Age	hrs	Client Info		<b>6177</b>	6132	5401
Oil Age	hrs	Client Info		<b>0</b>	0	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	>50	<b>0</b>	1	1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	2	0
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

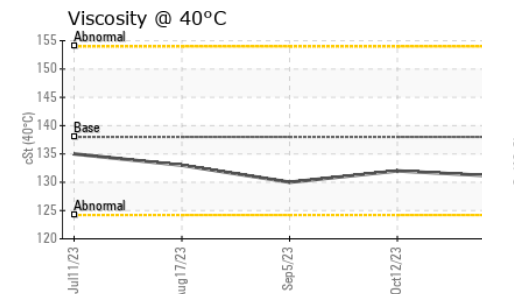
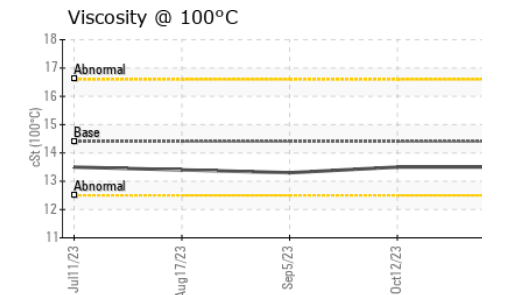
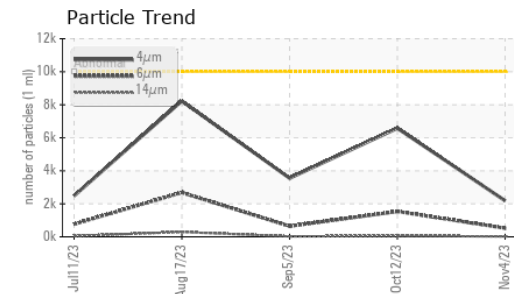
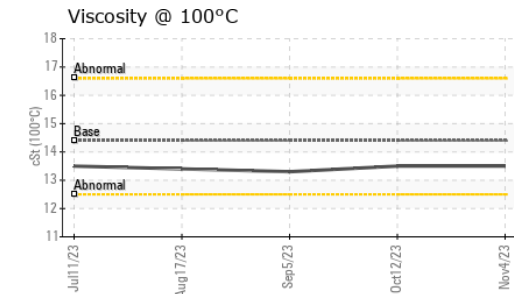
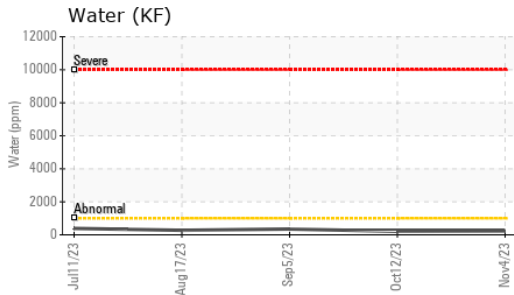
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	<b>74</b>	79	109
Barium	ppm	ASTM D5185m	12	<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m	200	<b>&lt;1</b>	1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	5	<b>6</b>	6	10
Calcium	ppm	ASTM D5185m	1600	<b>1231</b>	1268	1311
Phosphorus	ppm	ASTM D5185m	300	<b>302</b>	287	279
Zinc	ppm	ASTM D5185m	400	<b>318</b>	308	295
Sulfur	ppm	ASTM D5185m	2600	<b>2236</b>	2186	1457

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	4	2
Sodium	ppm	ASTM D5185m		<b>3</b>	0	2
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	1
Water	%	ASTM D6304	>0.1	<b>0.022</b>	0.021	0.035
ppm Water	ppm	ASTM D6304	>1000	<b>228.2</b>	212.2	351.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>2184</b>	6578	3550
Particles >6µm		ASTM D7647	>2500	<b>521</b>	1538	646
Particles >14µm		ASTM D7647	>320	<b>21</b>	57	24
Particles >21µm		ASTM D7647	>80	<b>4</b>	9	6
Particles >38µm		ASTM D7647	>20	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>18/16/12</b>	20/18/13	19/17/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.38</b>	0.55	0.44

# OIL ANALYSIS REPORT



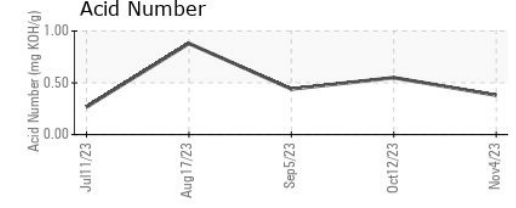
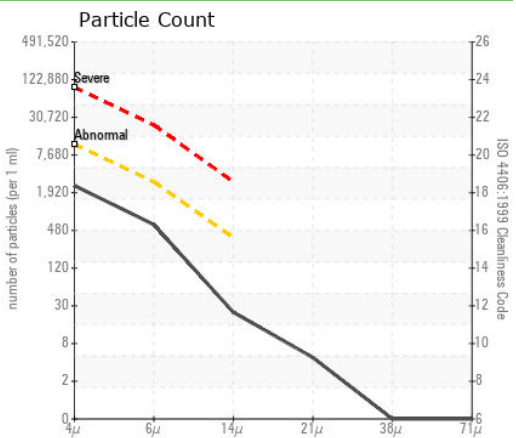
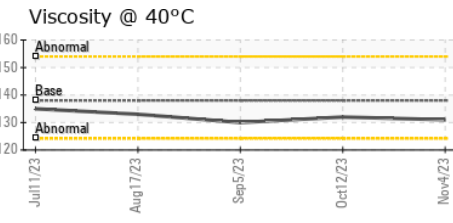
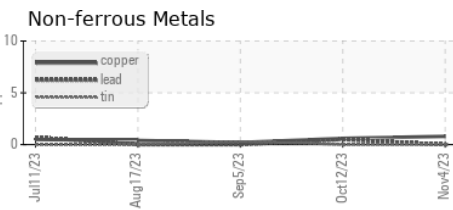
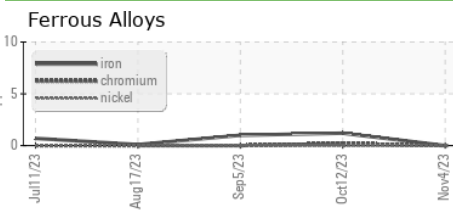
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	138	131	132
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.5
Viscosity Index (VI)	Scale	ASTM D2270	102	97	96

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60001718 **Received** : 15 Nov 2023  
**Lab Number** : 06008400 **Diagnosed** : 18 Nov 2023  
**Unique Number** : 10742162 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, 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)

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