



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MRC-320
 Component
Compressor
 Fluid
LO-ASH ENGINE OIL SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO60002151	TO60001964	TO60001933
Sample Date		Client Info		05 Feb 2024	10 Jan 2024	02 Dec 2023
Machine Age	hrs	Client Info		6088	5730	5044
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	<1	0
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	0
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

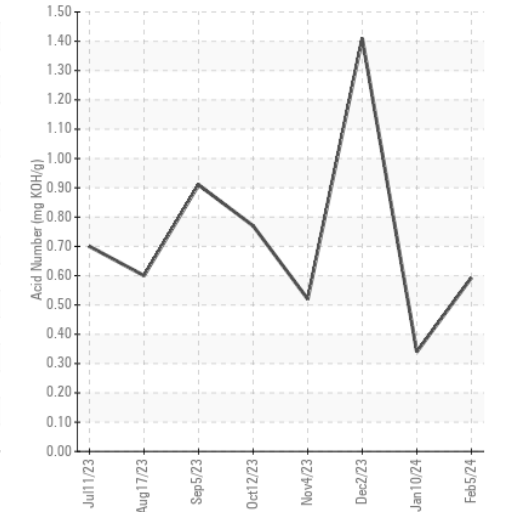
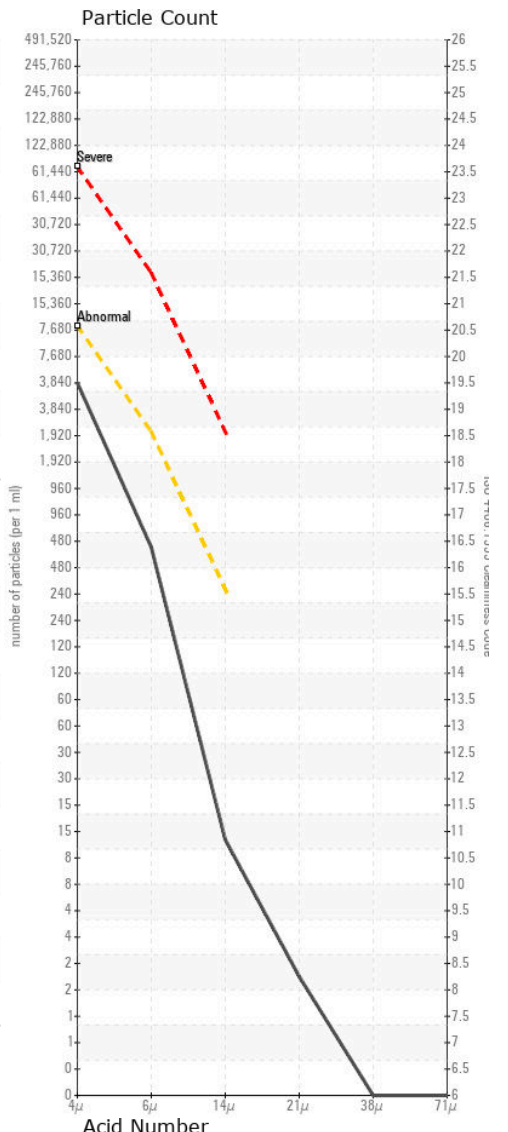
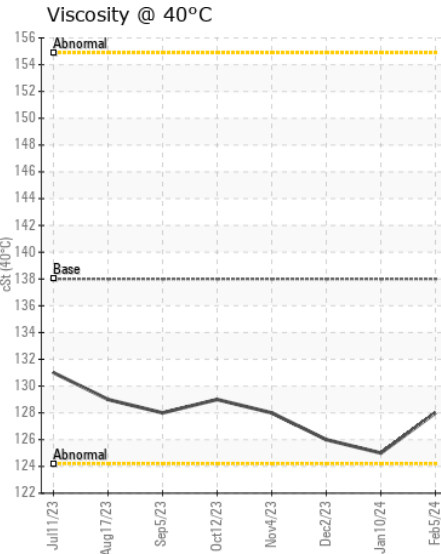
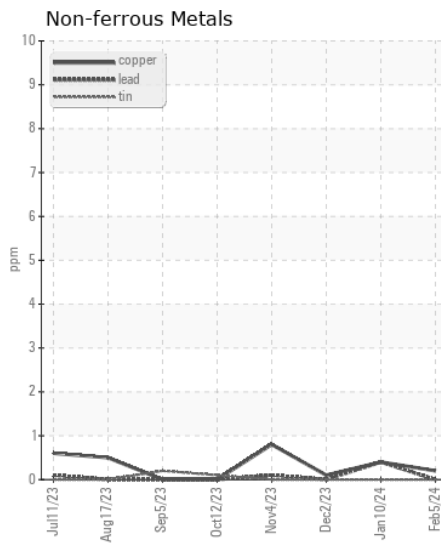
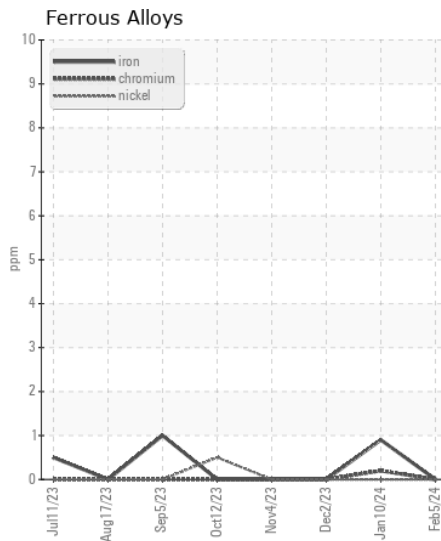
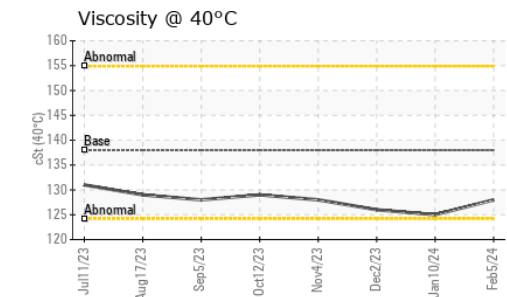
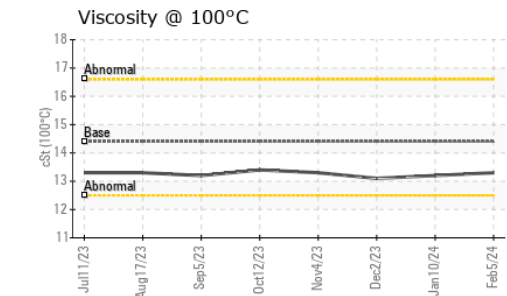
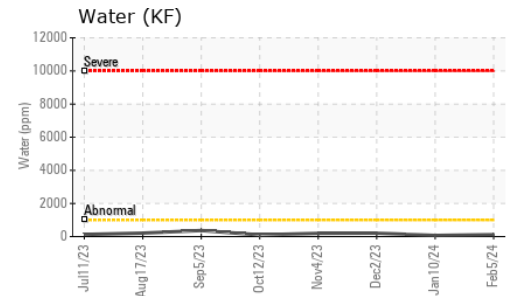
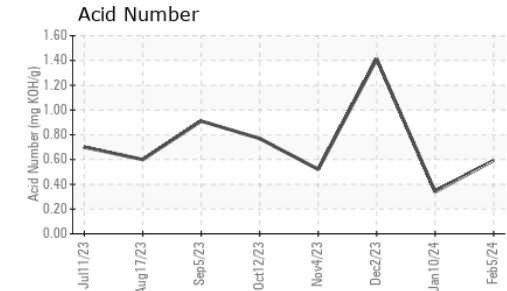
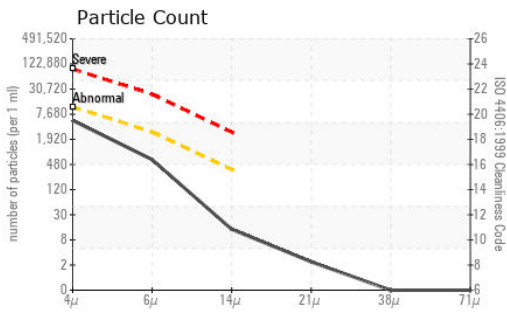
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	15	8	5
Potassium	ppm	ASTM D5185m	>20	1	2	0
Water	%	ASTM D6304	>0.1	0.011	0.006	0.021
ppm Water	ppm	ASTM D6304	>1000	119	67	211
Particles >4µm		ASTM D7647	>10000	4744	2371	5010
Particles >6µm		ASTM D7647	>2500	551	155	1241
Particles >14µm		ASTM D7647	>320	12	12	55
Particles >21µm		ASTM D7647	>80	2	4	7
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/16/11	18/14/11	20/17/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	0	2
Boron	ppm	ASTM D5185m	37	72	109	106
Barium	ppm	ASTM D5185m	12	0	<1	0
Molybdenum	ppm	ASTM D5185m	200	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	5	7	8	8
Calcium	ppm	ASTM D5185m	1600	1197	1196	1252
Phosphorus	ppm	ASTM D5185m	300	283	313	286
Zinc	ppm	ASTM D5185m	400	302	271	292
Sulfur	ppm	ASTM D5185m	2600	3703	3250	2542
Acid Number (AN)	mg KOH/g	ASTM D8045		0.593	0.34	1.41
Visc @ 40°C	cSt	ASTM D445	138	128	125	126
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.2	13.1
Viscosity Index (VI)	Scale	ASTM D2270	102	97	99	97



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO60002151 **Received** : 13 Feb 2024
Lab Number : 06087283 **Tested** : 14 Feb 2024
Unique Number : 10874728 **Diagnosed** : 14 Feb 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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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)