



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
[MC-001339-1]
 Machine Id
HUSSMAN 7117699
 Component
A Reciprocating Compressor
 Fluid
EMKARATE RL 32-3MAF (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0794385	---	---
Sample Date		Client Info		22 Feb 2024	---	---
Machine Age	mths	Client Info		1	---	---
Oil Age	mths	Client Info		1	---	---
Filter Age	mths	Client Info		1	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>50	29	---	---
Chromium	ppm	ASTM D5185(m)	>10	0	---	---
Nickel	ppm	ASTM D5185(m)		<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	1	---	---
Lead	ppm	ASTM D5185(m)	>25	2	---	---
Copper	ppm	ASTM D5185(m)	>50	2	---	---
Tin	ppm	ASTM D5185(m)	>15	3	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

The water content is negligible. There is no indication of any contamination in the oil.

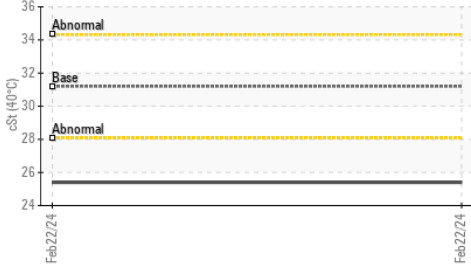
Silicon	ppm	ASTM D5185(m)	>25	1	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water	%	ASTM D6304*	>0.1	0.042	---	---
ppm Water	ppm	ASTM D6304*	>1000	422	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	.2%	---	---

FLUID CONDITION

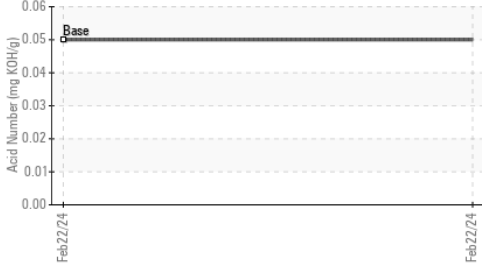
Viscosity of sample indicates oil is within ISO 22 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<1	---	---
Boron	ppm	ASTM D5185(m)		<1	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		0	---	---
Calcium	ppm	ASTM D5185(m)		<1	---	---
Phosphorus	ppm	ASTM D5185(m)		0	---	---
Zinc	ppm	ASTM D5185(m)		14	---	---
Sulfur	ppm	ASTM D5185(m)		0	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	0.05	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	31.2	25.4	---	---

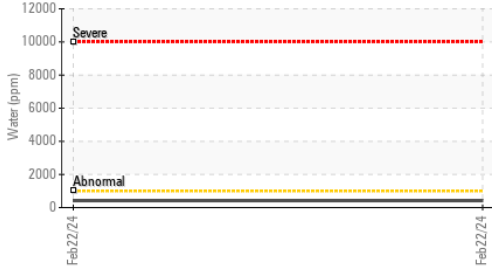
▲ Viscosity @ 40°C



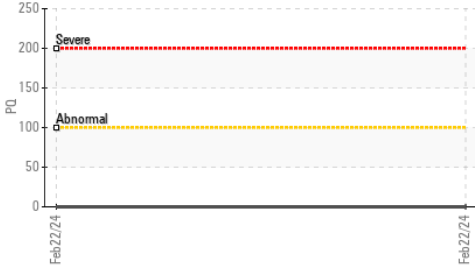
Acid Number



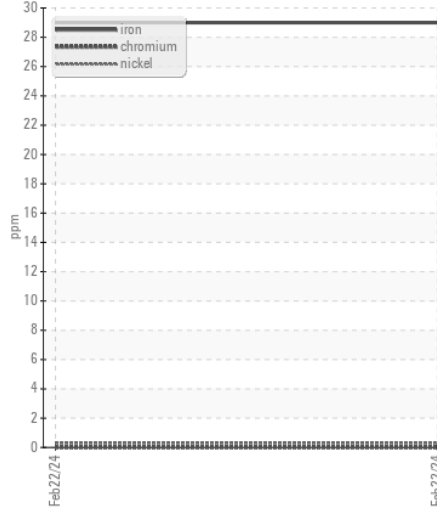
Water (KF)



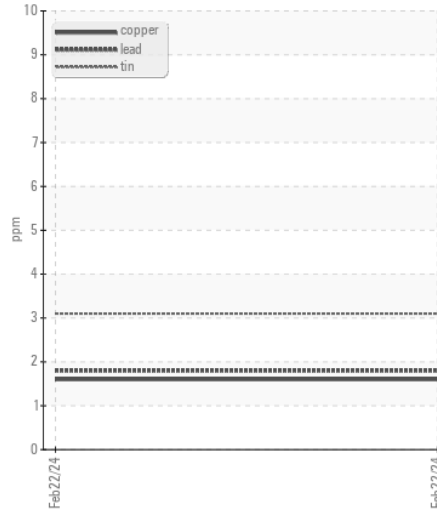
PQ



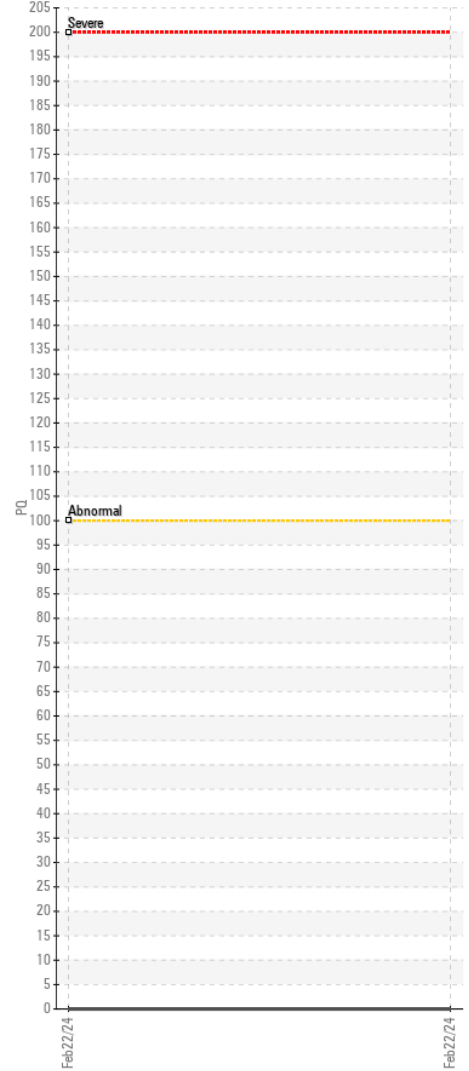
Ferrous Alloys



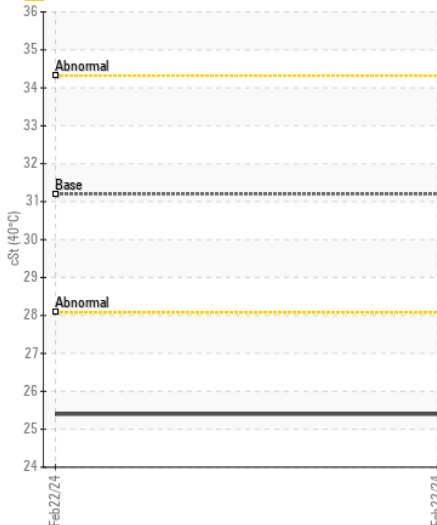
Non-ferrous Metals



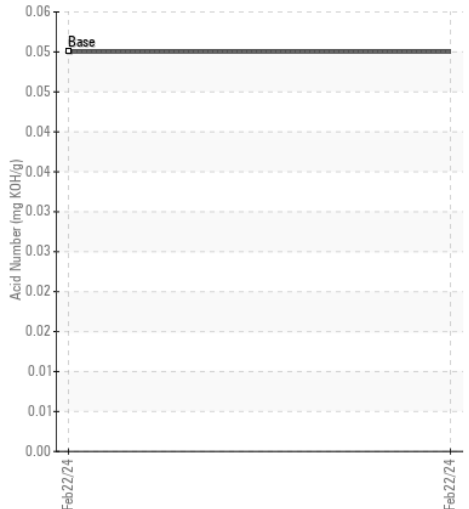
PQ



▲ Viscosity @ 40°C



Acid Number



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0794385 **Received** : 26 Feb 2024
Lab Number : 02618079 **Tested** : 28 Feb 2024
Unique Number : 5735189 **Diagnosed** : 28 Feb 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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