



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
MISSION RANCHO
Machine Id
MISSION RANCHO C3 (S/N TDSH233S2587E)
Component
Refrigeration Compressor
Fluid
FRICK COMPRESSOR OIL #13 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		USP0012285	USP0011528	USP233713
Sample Date		Client Info		11 Jul 2024	08 May 2024	08 Feb 2023
Machine Age	hrs	Client Info		134107	33397	127708
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 Chngd
Filter Changed		Client Info		N/A	N/A	Not Chngd
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>8	4	---	4
Chromium	ppm	ASTM D5185m	>2	0	---	0
Nickel	ppm	ASTM D5185m		0	---	0
Titanium	ppm	ASTM D5185m		0	---	0
Silver	ppm	ASTM D5185m	>2	0	---	0
Aluminum	ppm	ASTM D5185m	>3	<1	---	0
Lead	ppm	ASTM D5185m	>2	0	---	0
Copper	ppm	ASTM D5185m	>8	0	---	0
Tin	ppm	ASTM D5185m	>4	<1	---	<1
Vanadium	ppm	ASTM D5185m		0	---	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

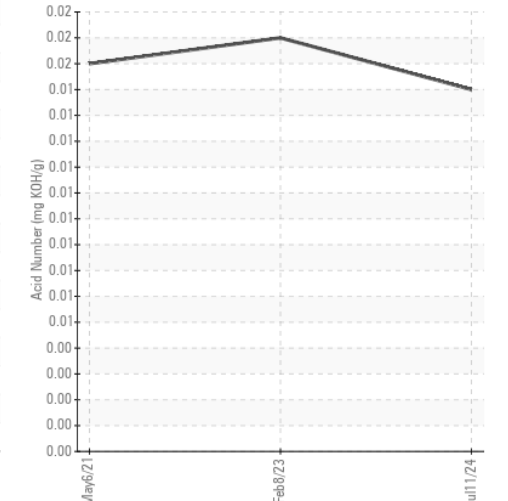
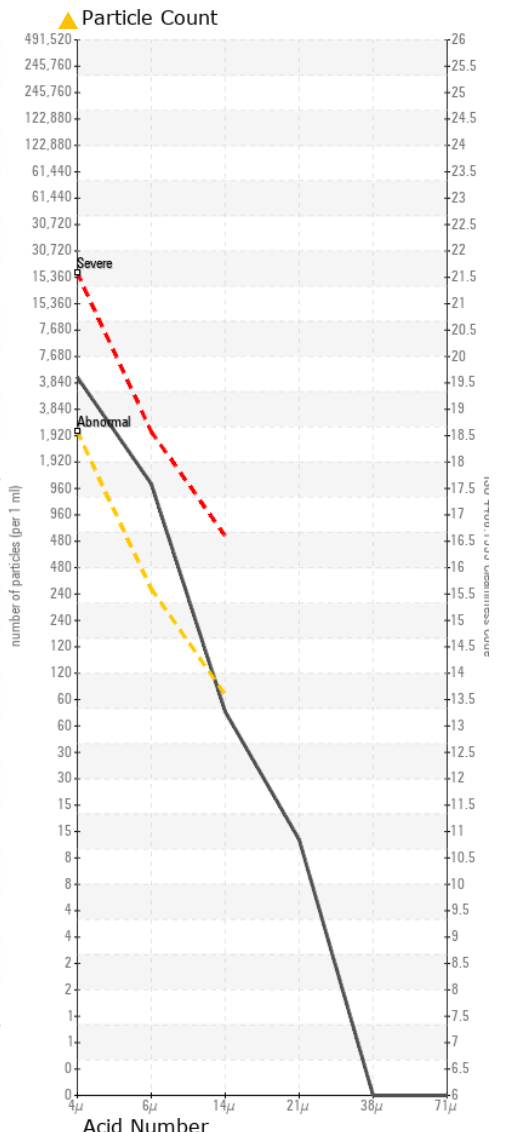
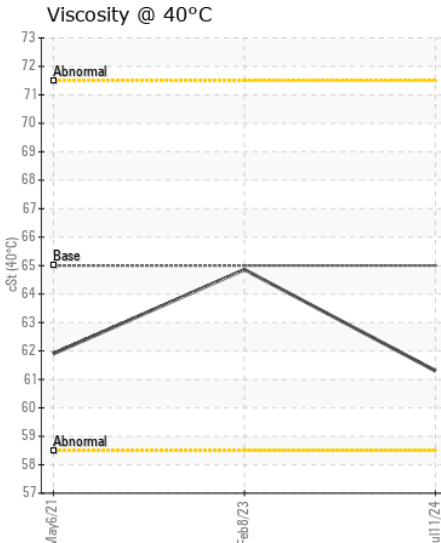
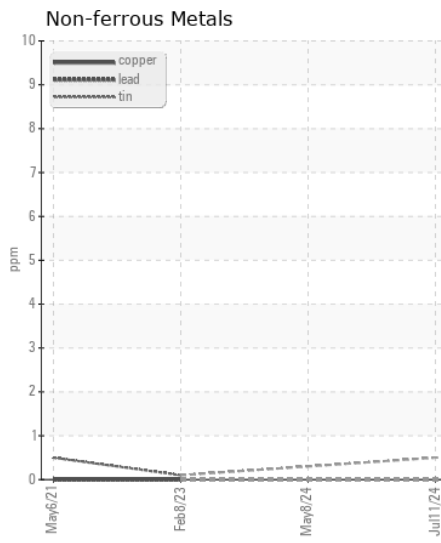
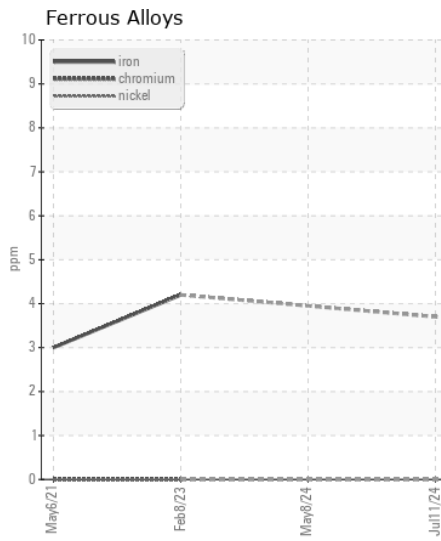
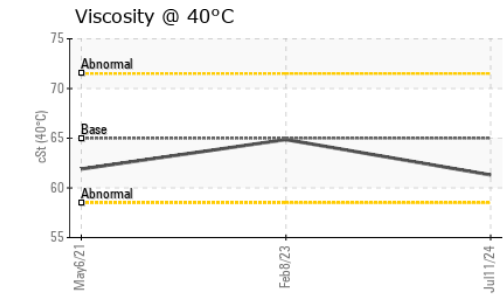
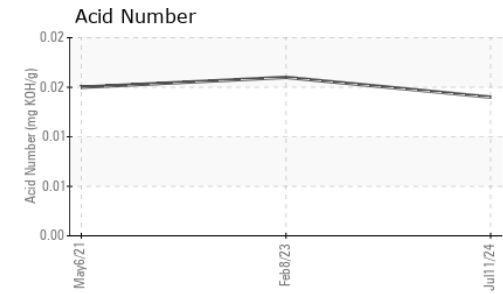
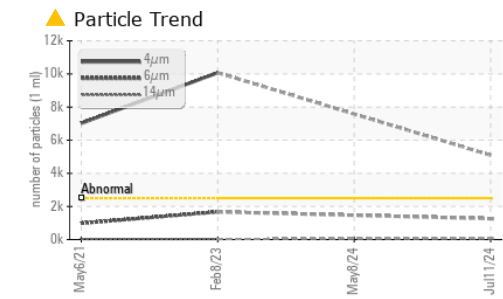
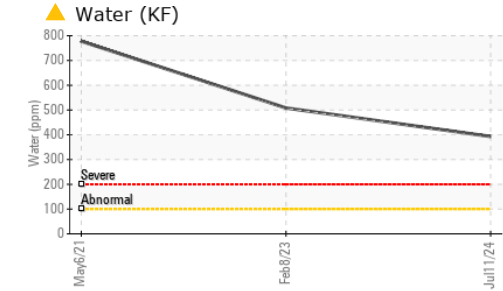
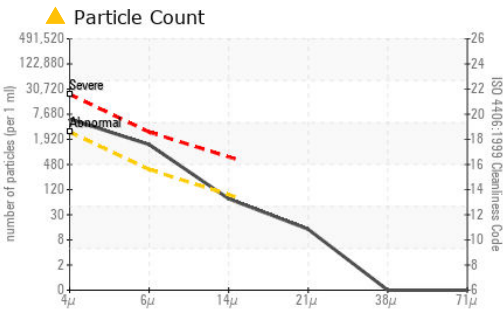
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	---	1
Potassium	ppm	ASTM D5185m	>20	<1	---	<1
Water	%	ASTM D6304	>0.01	▲ 0.039	---	● 0.050
ppm Water	ppm	ASTM D6304	>100	▲ 393	---	● 508.2
Particles >4µm		ASTM D7647	>2500	▲ 5093	---	▲ 10073
Particles >6µm		ASTM D7647	>320	▲ 1263	---	▲ 1672
Particles >14µm		ASTM D7647	>80	64	---	29
Particles >21µm		ASTM D7647	>20	12	---	4
Particles >38µm		ASTM D7647	>4	0	---	0
Particles >71µm		ASTM D7647	>3	0	---	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	▲ 20/17/13	---	▲ 21/18/12
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	>0.01	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		0	---	0
Boron	ppm	ASTM D5185m		0	---	0
Barium	ppm	ASTM D5185m		0	---	0
Molybdenum	ppm	ASTM D5185m		0	---	0
Manganese	ppm	ASTM D5185m		0	---	0
Magnesium	ppm	ASTM D5185m		0	---	<1
Calcium	ppm	ASTM D5185m		0	---	<1
Phosphorus	ppm	ASTM D5185m		0	---	0
Zinc	ppm	ASTM D5185m		0	---	0
Sulfur	ppm	ASTM D5185m		0	---	11
Acid Number (AN)	mg KOH/g	ASTM D974		0.014	---	0.016
Visc @ 40°C	cSt	ASTM D445	65.0	61.3	---	64.86



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0012285 **Received** : 12 Jul 2024
Lab Number : 06235000 **Tested** : 15 Jul 2024
Unique Number : 11123834 **Diagnosed** : 15 Jul 2024 - Doug Bogart
Test Package : IND 2

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Certificate L2367
 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)