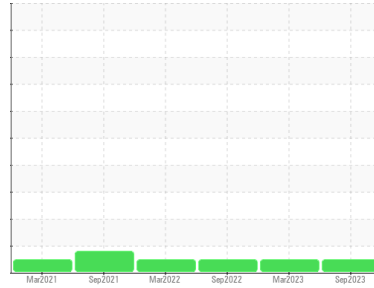




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
FRICK C-19 (S/N 11551M90739379)

Component
Refrigeration Compressor

Fluid
FRICK COMPRESSOR OIL #3 (--- QTS)

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	USP0001790	USP239232	USP231992
Sample Date	Client Info	28 Sep 2023	21 Mar 2023	19 Sep 2022
Machine Age	hrs Client Info	3208	3180	3120
Oil Age	hrs Client Info	3208	3180	3120
Oil Changed	Client Info	N/A	Not Changd	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >8	2	2	2
Chromium ppm	ASTM D5185m >2	0	0	0
Nickel ppm	ASTM D5185m	0	0	0
Titanium ppm	ASTM D5185m	0	0	0
Silver ppm	ASTM D5185m >2	0	0	0
Aluminum ppm	ASTM D5185m >3	0	0	0
Lead ppm	ASTM D5185m >2	0	0	<1
Copper ppm	ASTM D5185m >8	0	0	0
Tin ppm	ASTM D5185m >4	0	0	0
Vanadium ppm	ASTM D5185m	0	0	0
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	0
Barium ppm	ASTM D5185m	0	2	2
Molybdenum ppm	ASTM D5185m	0	0	0
Manganese ppm	ASTM D5185m	0	<1	<1
Magnesium ppm	ASTM D5185m	0	0	0
Calcium ppm	ASTM D5185m	0	0	0
Phosphorus ppm	ASTM D5185m	0	0	0
Zinc ppm	ASTM D5185m	0	<1	0
Sulfur ppm	ASTM D5185m	22	45	42

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >15	1	2	2
Sodium ppm	ASTM D5185m	<1	<1	<1
Potassium ppm	ASTM D5185m >20	0	0	0
Water %	ASTM D6304 >0.01	0.003	0.001	0.001
ppm Water ppm	ASTM D6304 >100	34.1	12.1	10.4

FLUID CLEANLINESS

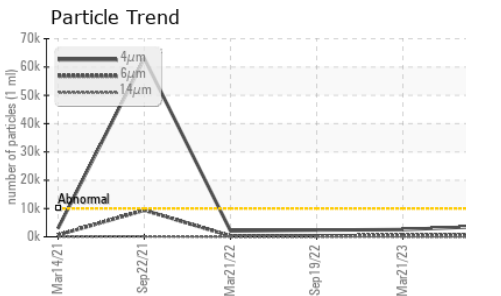
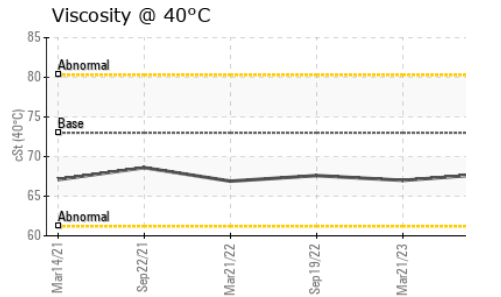
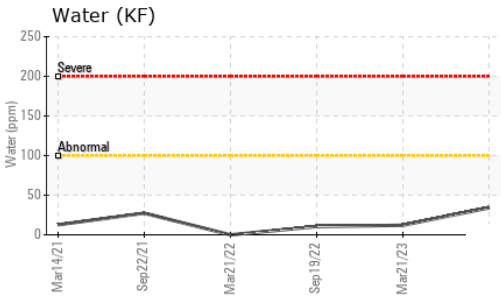
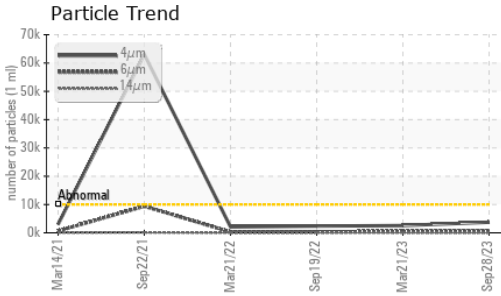
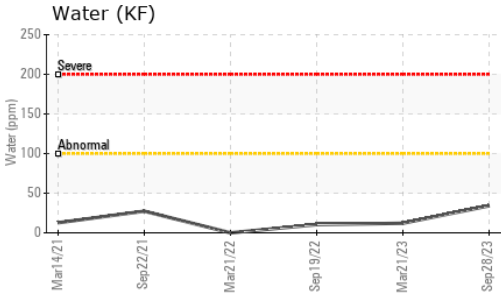
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	3743	2569	2383
Particles >6µm	ASTM D7647 >2500	590	441	385
Particles >14µm	ASTM D7647 >320	15	22	23
Particles >21µm	ASTM D7647 >80	4	5	6
Particles >38µm	ASTM D7647 >20	0	0	1
Particles >71µm	ASTM D7647 >4	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	19/16/11	19/16/12	18/16/12

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974	0.014	0.015	0.013



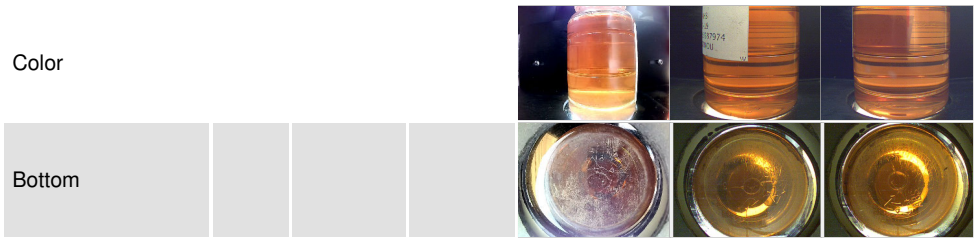
OIL ANALYSIS REPORT



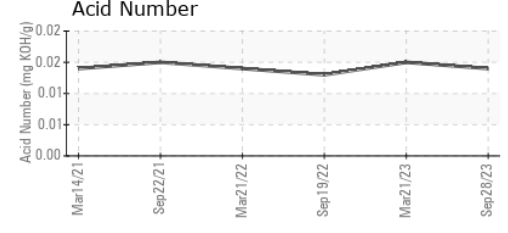
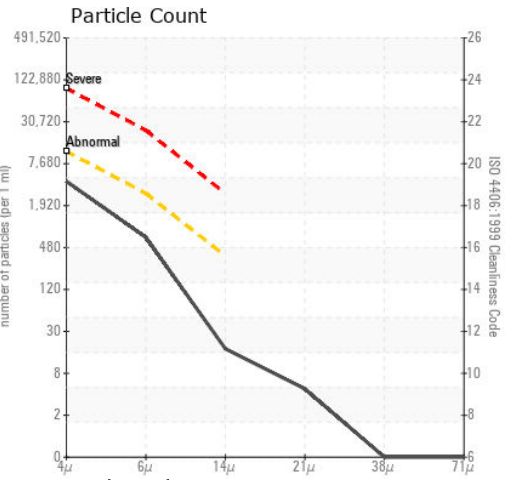
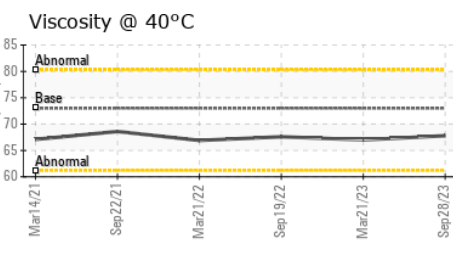
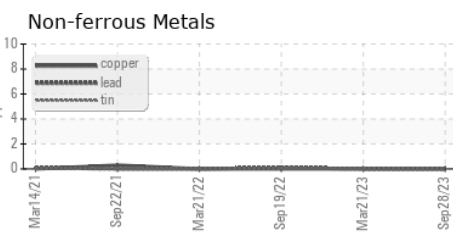
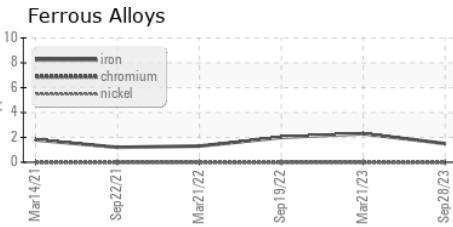
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 73	67.8	67.0	67.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0001790 **Received** : 29 Sep 2023
Lab Number : 05965433 **Diagnosed** : 02 Oct 2023
Unique Number : 10671984 **Diagnostician** : Doug Bogart
Test Package : IND 2

DOT FOODS
 MT STERLING, IL
 US
 Contact: LARRY CASTEEL
 lcasteel@dotfoods.com
 T: (217)773-4411
 F: x:

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)