

## **OIL ANALYSIS REPORT**

Sample Rating Trend

# VISCOSITY

Machine Id

## FRICK DC-1 (S/N SGC23170196)

Refrigeration Compressor Fluid

PETRO CANADA REFLO 46A AMMONIA OIL (--- GAL)

#### 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.

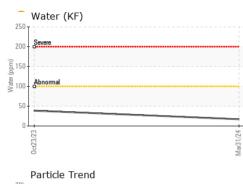
### Fluid Condition

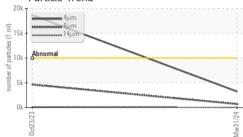
The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.

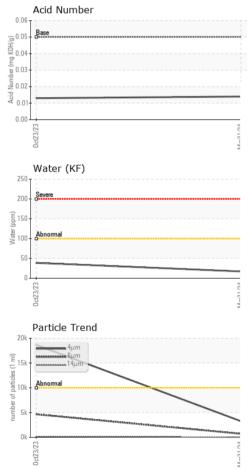
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008058	USP0002799	
Sample Date		Client Info		31 Mar 2024	23 Oct 2023	
Machine Age	hrs	Client Info		159060	55491	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ATTENTION	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	6	3	
Chromium	ppm	ASTM D5185m	>2	<1	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>3	0	0	
Lead	ppm	ASTM D5185m	>2	0	0	
Copper	ppm	ASTM D5185m	>8	2	1	
Tin	ppm	ASTM D5185m	>4	2 <1	0	
Vanadium	ppm	ASTM D5185m	~7	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		0	<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	0	2	
Sulfur	ppm	ASTM D5185m	0	0	12	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	
Sodium	ppm	ASTM D5185m		0	2	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
Water	%	ASTM D6304	>0.01	0.002	0.003	
ppm Water	ppm	ASTM D6304	>100	17	38.7	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	3243	18654	
Particles >6µm		ASTM D7647	>2500	704	646	
Particles >14µm		ASTM D7647	>320	22	149	
Particles >21µm		ASTM D7647	>80	3	17	
Particles >38µm		ASTM D7647	>20	0	0	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/12	21/19/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.05	0.014	0.013	

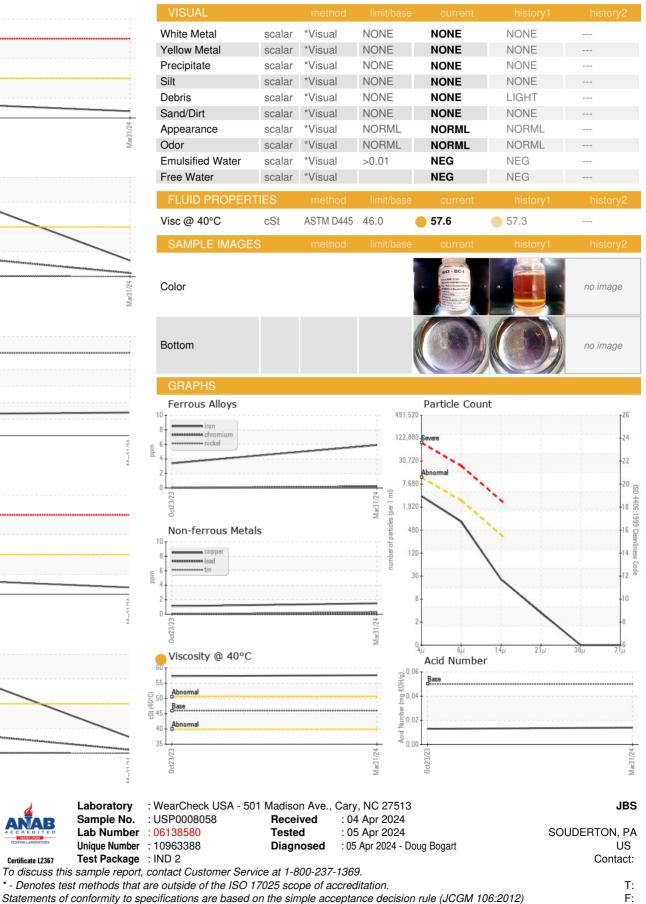


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Certificate 12367