

## **OIL ANALYSIS REPORT**

Sample Rating Trend

## VISCOSITY

## Machine Id FRICK DC-3 (S/N SGC2317)

Component Refrigeration Compressor

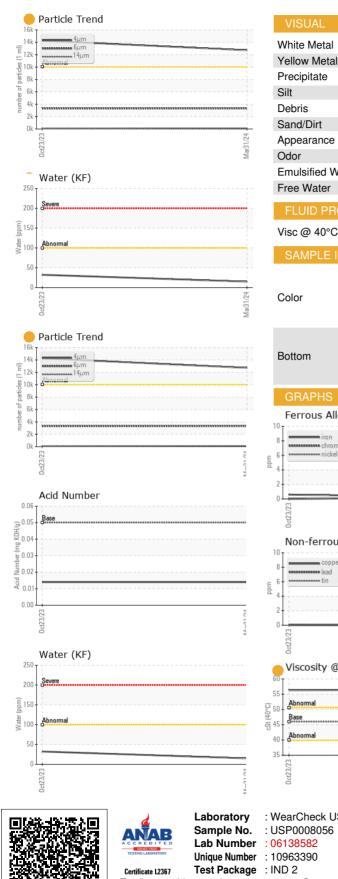
Fluid PETRO CANADA REFLO 46A AMMONIA OIL (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		USP0008056	USP0002797	
Resample at the next service interval to monitor.	Sample Date		Client Info		31 Mar 2024	23 Oct 2023	
Wear	Machine Age	hrs	Client Info		64188	61323	
All component wear rates are normal.	Oil Age	hrs	Client Info		0	0	
Contamination	Oil Changed		Client Info		N/A	N/A	
There is a moderate amount of silt (particulates <	Sample Status				ATTENTION	ATTENTION	
14 microns in size) present in the oil.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.	Iron	ppm	ASTM D5185m	>8	<1	<1	
	Chromium	ppm	ASTM D5185m	>2	<1	0	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>3	1	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m	>8	0	0	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		<1	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		<1	0	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	0	<1	0	
	Calcium	ppm	ASTM D5185m		0	0	
	Phosphorus	ppm	ASTM D5185m		0	0	
	Zinc	ppm	ASTM D5185m		0	2	
	Sulfur	ppm	ASTM D5185m		0	4	
	CONTAMINANTS						history2
			method	limit/base		history1	
	Silicon	ppm	ASTM D5185m	>15	<1	<1	
	Sodium	ppm	ASTM D5185m		<1	1	
	Potassium	ppm	ASTM D5185m		1	<1	
	Water ppm Water	% ppm	ASTM D6304 ASTM D6304		0.001 15	0.003 32.3	
	FLUID CLEANLIN					history1	history2
	Particles >4µm		method ASTM D7647	limit/base	current	14267	nistory2
					-		
	Particles >6µm Particles >14µm		ASTM D7647		<b>3315</b>	3304	
			ASTM D7647		129	68	
	Particles >21µm		ASTM D7647 ASTM D7647		21	9	
	Particles >38µm				0	1	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		<u> </u>	21/19/13	
	FLUID DEGRAD		method	limit/base		history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D974	0.05	0.014	0.014	



## **OIL ANALYSIS REPORT**

scalar



\*Visual NONE NONE NONE scalar NONE scalar \*Visual NONE NONE scalar \*Visual NONE NONE NONE \*Visual NONE NONE scalar LIGHT NONE NONE NONE scalar \*Visual NORML NORML Appearance scalar \*Visual NORML \*Visual NORML NORML NORML scalar **Emulsified Water** scalar \*Visual >0.01 NEG NEG scalar \*Visual NEG NEG FLUID PROPERTIES 56.3 Visc @ 40°C cSt ASTM D445 46.0 56.5 SAMPLE IMAGES no image no image Ferrous Alloys Particle Count 491,52 122,88 30.72 7.68 (per 1 ml) Mar31/24 4406 1,920 :1999 Cle Non-ferrous Metals 480 120 14 31 Mar31/2 214 Viscosity @ 40°C Acid Number (B/J) Bas HOX Bun 10.04 Acid 0.00 Mar31/24 -Mar31/24 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 JBS Received : 04 Apr 2024 Tested SOUDERTON, PA : 05 Apr 2024 Diagnosed : 05 Apr 2024 - Doug Bogart US Contact: 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

NONE

\*Visual

NONE

NONE

Contact/Location: ? ? - JBSSOU Page 2 of 2