

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

SC5 - PILGRAMS WEST PLANT REFRIGERATION (S/N C980772A-1) Screw Compressor

Fluid TULCO LUBSOIL A68 (--- GAL)

DIAGNOSIS

Machine Id

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

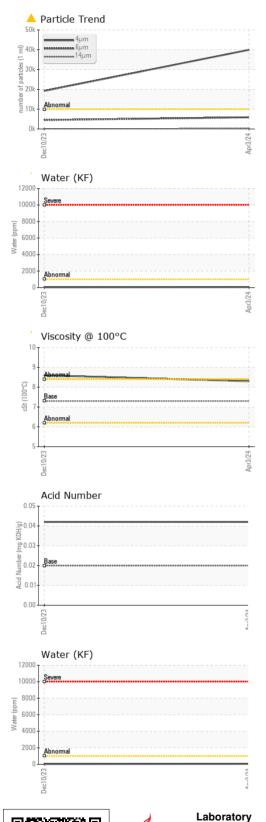
Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002257	TO20000260	
Sample Date		Client Info		03 Apr 2024	10 Dec 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	33	56	
Chromium	ppm	ASTM D5185m		0	<1	
Nickel	ppm	ASTM D5185m	<i>·</i> ·	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>5	0	<1	
Lead		ASTM D5185m	>10	0	0	
	ppm	ASTM D5185m	>30	0	0	
Copper Tin	ppm		>30	-	0	
Vanadium	ppm	ASTM D5185m	>10	0		
	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		0	<1	
Calcium	ppm	ASTM D5185m		0	8	
Phosphorus	ppm	ASTM D5185m		0	35	
Zinc	ppm	ASTM D5185m		3	9	
Sulfur	ppm	ASTM D5185m	250	0	269	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	<1	
Sodium	ppm	ASTM D5185m		1	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water	%	ASTM D6304	>0.1	0.005	0.003	
ppm Water	ppm	ASTM D6304	>1000	55	36	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 39936	19224	
Particles >6µm		ASTM D7647	>2500	<u> </u>	6 4512	
Particles >14µm		ASTM D7647	>320	158	126	
Particles >21µm		ASTM D7647	>80	23	13	
		ASTM D7647	>20	1	0	
Particles >38µm						
Particles >38μm Particles >71μm		ASTM D7647	>4	0	0	
			>4 >20/18/15	0 22/20/14	0	
Particles >71µm		ASTM D7647				



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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		*Visual	NONE	NONE	NONE	
	scalar			-		
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	<u> </u>	▲ 84.2	
Visc @ 100°C	cSt	ASTM D445	7.3	8.3	8 .6	
Viscosity Index (VI)	Scale	ASTM D2270	50	60	62	
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
GRAPHS						
Ferrous Alloys				Particle Cour	nt	
			491,52	I o		T ²⁶
- chromium			122,88	0 Severe		-24
nickel			30,72			
			30,72	Abnormal		-22
ц			*			-20
Dec10/23			Apr3/24 per 1 ml		•	-18
—			A dise			
Non-ferrous Metals	5		Apr3/24- 102 102 102 102 102 102 102 102 102 102	0	1	-18 -16 -14
copper			12	0-		-14
nanananana lead			hum	0+		-12
				-		12
				8 -		-10
53			24	2 -		-8
Dec10/23			Apr3/24	-		
				0. 4μ 6μ	14µ 21µ	38µ 71µ
Viscosity @ 40°C				Acid Number	r	
			0.0 HO	4		
Abnormal			Ĕ 0.0	3		
- Base				2 Base	****	
Abnormal		******	0.0 4 0.0 Acid Number 0.0 Mu 0.0 Vition 0.0	01		
) L 4			0.0 qc	23+0		
Dec10/23			Apr3/24	Dec10/23		
/earCheck USA - 501 O10002257 <mark>6143136</mark> 0967944	Rece Teste	ived : 09 d : 10	, NC 27513) Apr 2024) Apr 2024 Apr 2024 - Ang	ela Borella	I	IL COMPAN P.O. BOX 99 DERSON, T US 7565
ID 2 (Additional Tes					Contact: AAR	

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Sample No. Lab Number Unique Number Test Package

Report Id: VELHEN [WUSCAR] 06143136 (Generated: 04/12/2024 13:56:18) Rev: 1

Certificate L2367

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