

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# VILTER 104-D (S/N 5137)

Compressor

TULCO LUBSOIL 2150 SYNTHETIC 150 (--- LTR)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

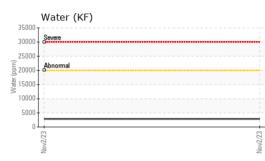
#### Fluid Condition

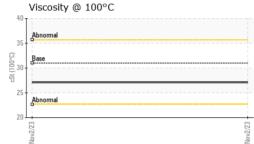
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

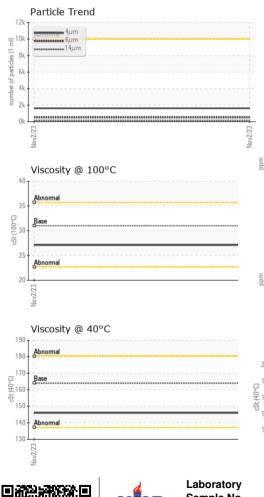
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001554		
Sample Date		Client Info		02 Nov 2023		
Machine Age	hrs	Client Info		84471		
Oil Age	hrs	Client Info		84471		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m		<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>50	0		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		2		
Phosphorus	ppm	ASTM D5185m		40		
Zinc	ppm	ASTM D5185m		<1		
Sulfur	ppm	ASTM D5185m		97		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>2.0	0.285		
ppm Water	ppm	ASTM D6304	>20000	2851		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1621		
Particles >6µm		ASTM D7647	>2500	514		
Particles >14µm		ASTM D7647	>320	144		
Particles >21µm		ASTM D7647	>80	65		
Particles >38µm		ASTM D7647	>20	2		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.96		



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VISUAL		method	limit/base	current	history1	history2
White Metal		*Visual	NONE	NONE	Thistory P	
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
	scalar	*Visual	NORML	NORML		
CZ Appearance Odor	scalar	*Visual	NORML	NORML		
Emulsified Wate		*Visual	>2.0	NEG		
Free Water	scalar	*Visual	>L.0	NEG		
			l'as 't /ls s s s			
FLUID PROF		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	164	146		
Visc @ 100°C	cSt	ASTM D445	31	27.1		
Viscosity Index	(VI) Scale	ASTM D2270	233	223		
	AGES	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						
Ferrous Alloy	S		491,52	Particle Count	t	T <sup>2</sup>
10 8 8			401,02			
			122,88	0 Severe		-2
			30,72	10-		-2
2				Abnormal		-2
Nov2/23			Nov2/23		•	
Nov			Jon 1,92			-11
Non-ferrous I	Metals		48 autice		<b>N</b>	-11
10 8 copper ]			Nov2/22 1.32 48 17 17 17 17 17 17 17 17 17 17 17 17 17	10-		-1
			numb		1	-1:
a. 4-			- 3	10 -		-1
2				8-		11
			2/23	2-		1
Nov2/23			Nav2/23	0		
Viscosity @ 4	0°C			Acid Number	14μ 21μ	38µ 71µ
200 T			(P)1			
and the second s			D KO	8		
			1 Number 0 0 0 0	4		
3 140 - Abnormal				2		
120			<sup>20</sup> 0	.0 4		
Nov2/23			Nav2/23	Nov2/23		
Nc			N	N		
boratory : WearCheck US mple No. : TO60001554 b Number : 06015185 ique Number : 10754329	SA - 501 Madi Receive Diagnos Diagnos	d : 22   sed : 26	ry, NC 2751 Nov 2023 Nov 2023 n Baldridge	3	2	23429 ROAD CORTEZ, C IS 81321-95

US 81321-9538 Contact: Service Manager



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)

Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

Certificate L2367

Contact/Location: Service Manager - ELKCOR