







RECOMMENDATION

Jun26/20

Abnormal

6.00

5.00

13 전 4.00

3.00

2.00

1.00

0.00

Mar26/1

TULCO WEAREN

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Feb 10/21

PROBLEMATIC TEST RESULTS

Aug9/23 .

/22

Dec1

lun9/22

May6/21

Sample Status				SEVERE	ABNORMAL	ABNORMAL		
Silicon	ppm	ASTM D5185m	>25	<u> </u>	1 46	5 5		
Water	%	ASTM D6304	>2.26	e 7.83	2.406	0.271		
ppm Water	ppm	ASTM D6304	>22600	e 78300	24061.4	2717.5		
Silt	scalar	*Visual	NONE	🔺 MODER	🔺 MODER	NONE		
Emulsified Water	scalar	*Visual	>2.26	0.2%	NEG	NEG		
Free Water	scalar	*Visual		1.0	NEG	NEG		

Customer Id: MELMELTX Sample No.: TO60001322 Lab Number: 05924358 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.		
Resample			?	We recommend an early resample to monitor this condition.		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		
Check Water Access			?	We advise that you check for the source of water entry.		

HISTORICAL DIAGNOSIS



19 Jul 2023 Diag: Don Baldridge

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Elemental level of silicon (Si) above normal. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

DIRT



01 Dec 2022 Diag: Doug Bogart

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

09 Jun 2022 Diag: Don Baldridge

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Machine Id VILTER A Component Compressor Fluid TULCO LUBSOIL LPG WI 100 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate amount of visible silt present in the sample. There is a high concentration of water present in the oil. Free water present.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

		Mar2018 J	Jun2020 Feb2021	May2021 Jun2022 Dec2022	Aug2023	
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001322	TO60000421	TO50000126
Sample Date		Client Info		09 Aug 2023	19 Jul 2023	01 Dec 2022
Machine Age	wks	Client Info		0	0	0
Oil Age	wks	Client Info		0	0	0
Oil Changed		Client Info		Filtered	Filtered	Filtered
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	3	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	0	0	0
Tin	ppm	ASTM D5185m	>15	<1	1	1
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	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	5	0	2
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	0	4	0	36
Zinc	ppm	ASTM D5185m	0	0	0	4
Sulfur	ppm	ASTM D5185m	0	8826	9421	8505
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<mark> 8</mark> 8	1 46	5 5
Sodium	ppm	ASTM D5185m		0	0	4
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304	>2.26	e 7.83	2.406	0.271
ppm Water	ppm	ASTM D6304	>22600	• 78300	24061.4	2717.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000			3776
Particles >6µm		ASTM D7647	>2500			736
Particles >14µm		ASTM D7647	>320			42
Particles >21µm		ASTM D7647	>80			14
Particles >38µm		ASTM D7647	>20			0
Particles >71µm		ASTM D7647	>4			0
Oil Cleanliness		ISO 4406 (c)	>20/18/15			19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.61	0.624	1.40



OIL ANALYSIS REPORT



Contact/Location: BILL PALMER - MELMELTX

F:

Jec1/22