

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **270 (S/N 0098)** Component Hydraulic System Fluid CHEVRON 1000 THF (110 GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. (Customer Sample Comment: 12309.3 hours)

Wear

All component wear rates are normal.

Contamination

Appearance is unacceptable. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid.

	ATION	method	iinii/base	current	riistory i	riistory2	
Sample Number		Client Info		PTK0003775	PTK0002597	PTKM2325427	
Sample Date		Client Info		09 Jan 2023	02 Dec 2021	18 Mar 2019	
Machine Age	hrs	Client Info		12309	12159	10721	
Oil Age	hrs	Client Info		12309	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
		mothod	limit/bass	ourropt	historyd	history	
		methou	IIIIIVDase	current	Thistory I	Thistory2	
Iron	ppm	ASTM D5185m	>20	12	13	<u>▲</u> 26	
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m		0	<1	<1	
Aluminum	ppm	ASTM D5185m	>10	2	0	1	
Lead	ppm	ASTM D5185m	>10	4	7	7	
Copper	ppm	ASTM D5185m	>75	49	50	<u> </u>	
Tin	ppm	ASTM D5185m	>10	<1	<1	1	
Antimony	ppm	ASTM D5185m			0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	10	47	57	8	
Barium	maa	ASTM D5185m		0	0	<1	
Molvbdenum	ppm	ASTM D5185m		18	20	2	
Manganese	mag	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	20	87	99	22	
Calcium	ppm	ASTM D5185m	3200	2543	2787	1306	
Phosphorus	ppm	ASTM D5185m	1100	1028	1156	758	
Zinc	ppm	ASTM D5185m	1400	1104	1179	850	
Sulfur	ppm	ASTM D5185m	3600	5448	3930	4906	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	6	6	4	
Sodium	ppm	ASTM D5185m		4	<1	4	
Potassium	ppm	ASTM D5185m	>20	2	3	2	
Water	%	ASTM D6304	>0.1	6 0.487	▲ 0.654	▲ 0.122	
ppm Water	ppm	ASTM D6304	>1000	4870	▲ 6540	1220	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		1418	149259	254458	
Particles >6µm		ASTM D7647	>2500	772	▲ 30758	▲ 73813	
Particles >14µm		ASTM D7647	>320	131	▲ 618	269	
Particles >21um		ASTM D7647	>80	44	▲ 132	15	
Particles >38um		ASTM D7647	>20	7	5	0	
Particles >71um		ASTM D7647	>4	1	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/15	17/14	▲ 24/22/16	▲ 25/23/15	
FI UID DEGRADA		method	limit/base	current	history1	history2	
Acid Number (AN)	ma KOU/~		1.6	1 65	1 / 20	1 220	
30:42) Rev: 1	iiiy i∖∪⊓/y	AU TIVI DOU40	1.0	1.05	Submitted By: AUSTIN GOUGH		

Report Id: DRIBRI [WUSCAR] 05759423 (Generated: 12/29/2023 08:30:42) Rev: 1

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0k 151/6	9/15 -	2/16	5/16	8/19	2/21-
Sep	Oct2	May1	Decl	Marl	Dec

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🔺 MILKY	NORML	A HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	58.4	47.2	47.0	40.8
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						



Bottom



* - 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)

Certificate L2367

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