

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

ATTENTION

Machine Id

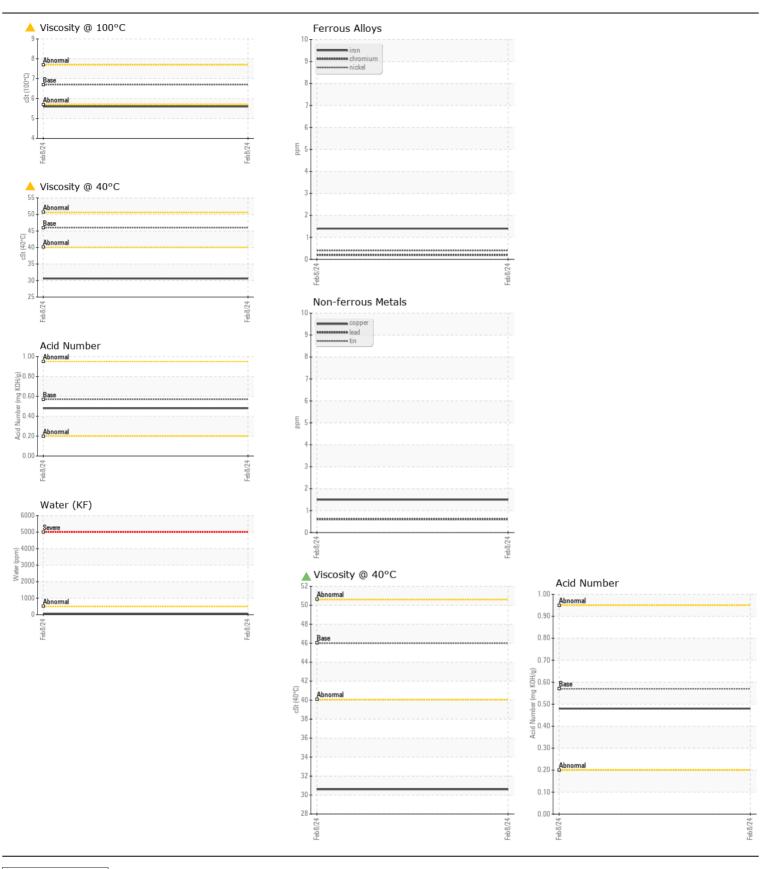
BAILEY CYL 288-338/YS12-21 - MCELROY

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component if applicable. 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.	Sample Number	JOIVI	Client Info	EIIIIV/AUII	TO10001943		
	Sample Date		Client Info		08 Feb 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR							
WEAR	Iron	ppm	ASTM D5185m		1		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>20	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	00	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m ASTM D5185m		<1		
	Copper Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m	>20	<1 0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>		Scalai	visuai		NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	<1		
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	5		
	Water	%	ASTM D6304	>0.05	0.006		
	ppm Water	ppm	ASTM D6304	>500	61		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	▲ MODER		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		0		
Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m	5	0		
	Barium	ppm	ASTM D5185m		13		
	Molybdenum	ppm	ASTM D5185m		1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	25	1		
	Calcium	ppm	ASTM D5185m		89		
	Phosphorus	ppm	ASTM D5185m		352		
	Zinc	ppm	ASTM D5185m		433		
	Sulfur	ppm	ASTM D5185m	2500	966		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.48		
	Visc @ 40°C	cSt	ASTM D445	46	30.6		
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445		▲ 30.6 ▲ 5.6		

Viscosity Index (VI) Scale ASTM D2270 97

123







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06086038

: TO10001943

Unique Number : 10873483

Received : 12 Feb 2024 : 13 Feb 2024 **Tested** Diagnosed

: 13 Feb 2024 - Don Baldridge Test Package : IND 2 (Additional Tests: KF, KV100, VI)

TULCO OILS INC (001-TULSA DIVISION) 5240 EAST PINE TULSA, OK US 74115

Contact: DYLAN COPE dylancope@tulco.com T: (800)375-2347

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)

F: x: