

OIL ANALYSIS REPORT

Sample Rating Trend **NORMAL**

110-04 WC-08 (S/N 205366)

Hydraulic System

CHEVRON RANDO HD 46 (21 GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

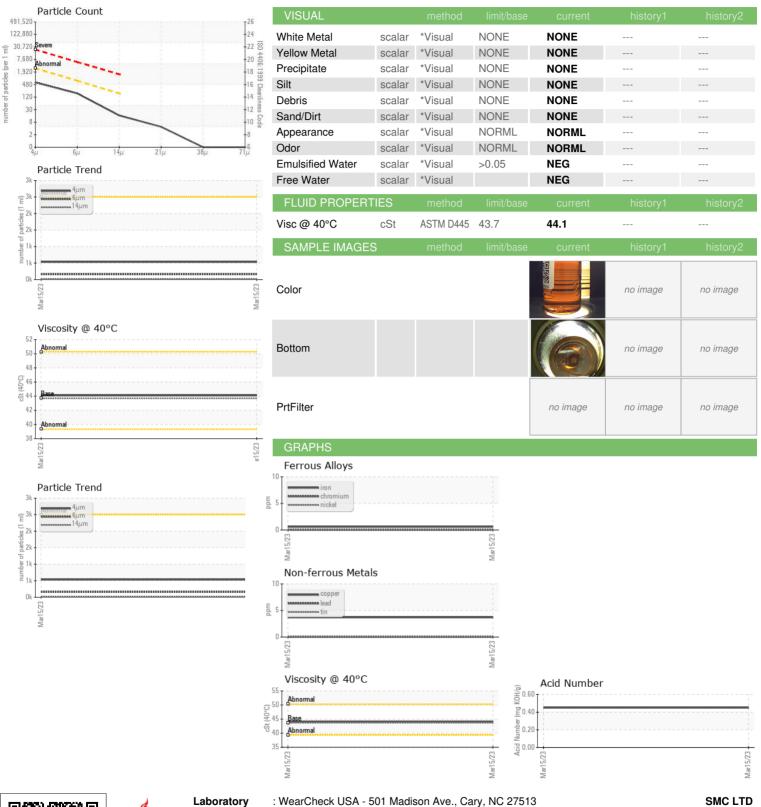
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		L		Mar2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0000454		
Sample Date		Client Info		15 Mar 2023		
Machine Age	hrs	Client Info		3081		
Oil Age	hrs	Client Info		3081		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	4		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	ourront	historyi	hiotory?
			IIIIII/Dase	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		47		
Phosphorus	ppm	ASTM D5185m		360		
Zinc	ppm	ASTM D5185m		464		
Sulfur	ppm	ASTM D5185m		1669		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6		
Sodium	ppm	ASTM D5185m		10		
Potassium	ppm	ASTM D5185m	>20	1		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	533		
Particles >6µm		ASTM D7647	>640	159		
Particles >14µm		ASTM D7647	>160	14		
Particles >21µm		ASTM D7647	>40	4		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/14	16/14/11		
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.45		

Contact/Location: SUSAN BENNETT - SMCSAN



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05800908

: PH0000454 : 10390592

Received Diagnosed

Diagnostician : Doug Bogart Test Package : PLANT (Additional Tests: KF)

: 24 Mar 2023 : 28 Mar 2023

US 95403 Contact: SUSAN BENNETT susan.bennett@smcltd.com T:

3250 BRICKWAY BLVD

SANTA ROSA, CA

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)

Report Id: SMCSAN [WUSCAR] 05800908 (Generated: 08/04/2023 15:31:46) Rev: 2

Contact/Location: SUSAN BENNETT - SMCSAN

F: