

OIL ANALYSIS REPORT

WN YNMU0101CM0002183

Component

Hydraulic System

FUTERRA HF 46 (--- GAL)

Sample Rating Trend **VISCOSITY**

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as (ONE-OFFS) FUTERRA HF 46, however, a fluid match indicates that this fluid is ISO 46 AW Hydraulic Oil. Please confirm the oil type and grade on your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component(unconfirmed).

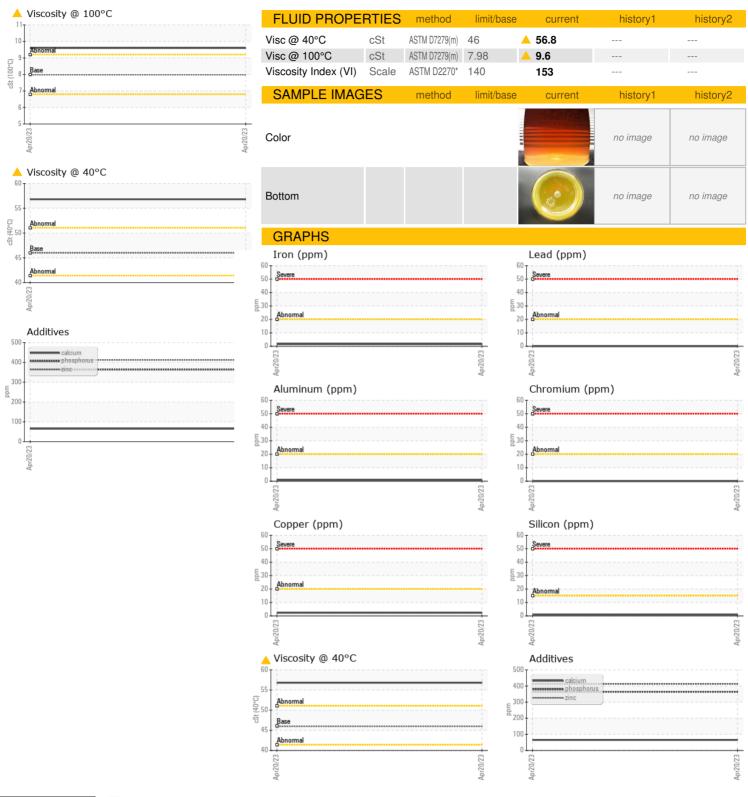
▲ Fluid Condition

The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

				Apr2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0073330		
Sample Date		Client Info		20 Apr 2023		
Machine Age	hrs	Client Info		1		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>20	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>20	<1		
Lead	ppm	ASTM D5185(m)	>20	0		
Copper	ppm	ASTM D5185(m)	>20	2		
Tin	ppm	ASTM D5185(m)	>20	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	ASTM D5185(m)		1		
Magnesium	ppm	ASTM D5185(m)		2		
Calcium	ppm	ASTM D5185(m)		65		
Phosphorus	ppm	ASTM D5185(m)		364		
Zinc	ppm	ASTM D5185(m)		440		
Sulfur	ppm			412		
Lithium		ASTM D5185(m)		882		
Littiium	ppm	ASTM D5185(m) ASTM D5185(m)				
CONTAMINAN	ppm	. ,	limit/base	882		
	ppm	ASTM D5185(m)		882 <1		
CONTAMINAN	ppm TS	ASTM D5185(m) method		882 <1 current		
CONTAMINAN Silicon	ppm TS ppm	ASTM D5185(m) method ASTM D5185(m)		882 <1 current <1	 history1	history2
CONTAMINAN Silicon Sodium	TS ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	>15	882 <1 current <1 <1	history1	history2
CONTAMINAN Silicon Sodium Potassium	TS ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>15 >20	882 <1 current <1 <1 0	 history1 	 history2
CONTAMINAN Silicon Sodium Potassium VISUAL	ppm TS ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	>15 >20 limit/base	882 <1 current <1 <1 0 current	history1 history1	 history2
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm TS ppm ppm ppm scalar	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method Visual*	>15 >20 limit/base NONE	882 <1 current <1 <1 0 current NONE	history1 history1	history2 history2 history2
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm TS ppm ppm ppm scalar scalar	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method Visual* Visual*	>15 >20 limit/base NONE NONE	882 <1 current <1 <1 0 current NONE NONE	history1 history1	history2 history2
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm TS ppm ppm ppm scalar scalar	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method Visual* Visual*	>15 >20 limit/base NONE NONE NONE	882 <1 current <1 <1 0 current NONE NONE NONE	history1 history1 history1	history2 history2 history2
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm TS ppm ppm ppm scalar scalar scalar scalar	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) wethod Visual* Visual* Visual* Visual*	>15 >20 limit/base NONE NONE NONE NONE	882 <1 current <1 <1 0 current NONE NONE NONE VLITE	history1 history1 history1	history2 history2 history2
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Wisual* Visual* Visual* Visual* Visual* Visual*	>15 >20 limit/base NONE NONE NONE NONE NONE NONE	882 <1 current <1 <1 0 current NONE NONE NONE VLITE VLITE	history1 history1	history2 history2
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method Visual* Visual* Visual* Visual* Visual* Visual*	>15 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	882 <1 current <1 <1 0 current NONE NONE NONE VLITE VLITE NONE	history1 history1	history2 history2
CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm TS ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method Visual* Visual* Visual* Visual* Visual* Visual* Visual* Visual*	>15 >20 limit/base NONE NONE	882 <1 current <1 <1 0 current NONE NONE NONE VLITE VLITE NONE NORML	history1 history1	history2 history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: PC0073330 : 02572990 : 5618041

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received

: 28 Jul 2023 Diagnosed

: 31 Jul 2023 Diagnostician : Kevin Marson Test Package : MOB 1 (Additional Tests: KV100, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

J. RENE LAFOND INC

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