

RECOMMENDATION

Limit/Abn Current

1093

0.43

35.7

ppm ASTM D5185m

Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445

Sulfur

History1

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- - -

Machine Id **FREIGHTLINER 2491**

Hydraulic System

SERVICE PRO UNIVERSAL TRACTOR HYD (--- QTS)

Test

UOM

Method

RECOMMENDATION	lest	UOM	Method	Limit/Abn	Current
	Sample Number		Client Info		RW0005551
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.	Sample Date		Client Info		21 May 2024
	Machine Age	hrs	Client Info		5424
	Oil Age	hrs	Client Info		0
	Filter Age	hrs	Client Info		0
	Oil Changed		Client Info		Not Changd
	Filter Changed		Client Info		Changed
	Sample Status				ABNORMAL
WEAR	Iron	ppm	ASTM D5185m		1
	Chromium	ppm	ASTM D5185m		<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1
	Titanium	ppm	ASTM D5185m	>2	1
	Silver	ppm	ASTM D5185m		<1
	Aluminum	ppm	ASTM D5185m	>8	2
	Lead	ppm	ASTM D5185m	>5	<1
	Copper	ppm	ASTM D5185m	>20	1
	Tin	ppm	ASTM D5185m	>2	<1
	Vanadium	ppm	ASTM D5185m		<1
	White Metal	scalar	*Visual	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE
CONTAMINATION There is a high amount of silt (particulates < 6 microns in size) present in the oil.					_
	Silicon	ppm	ASTM D5185m		1
	Potassium	ppm	ASTM D5185m		1
	Water		WC Method		NEG
	Particles >4µm		ASTM D7647		A 20433
	Particles >6µm		ASTM D7647		644
	Particles >14µm		ASTM D7647		11
	Particles >21µm		ASTM D7647		2
	Particles >38µm		ASTM D7647		0
	Particles >71µm		ASTM D7647		0
	Oil Cleanliness Silt	ocolor	ISO 4406 (c)		A 22/17/11
		scalar	*Visual	NONE	NONE NONE
	Debris Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML
	Odor		*Visual	NORML	NORML
	Emulsified Water	scalar scalar	*Visual	>0.1	NEG
		Scalai	visuai	>0.1	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		1
	Barium	ppm	ASTM D5185m		<1
	Molybdenum	ppm	ASTM D5185m		<1
	Manganese	ppm	ASTM D5185m		<1
	Magnesium	ppm	ASTM D5185m		10
	Calcium	ppm	ASTM D5185m		135
	Phosphorus	ppm	ASTM D5185m		372
	Zinc	ppm	ASTM D5185m		476
		PP			



Contact/Location: ERIC KING - NEWMUS Page 2 of 2