

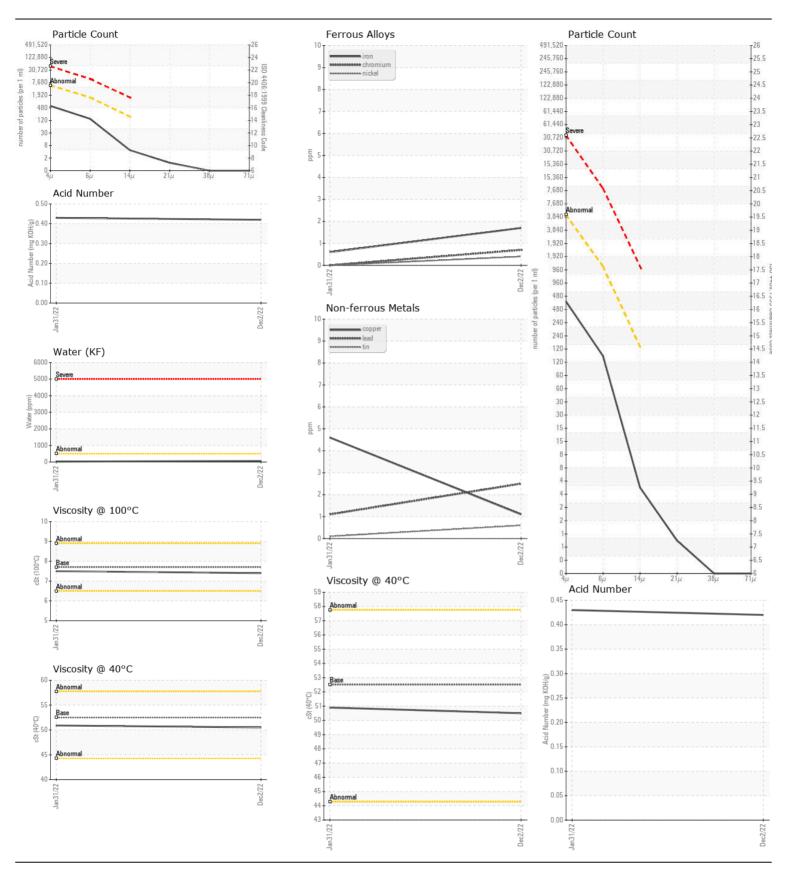
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

EMB 190 1_31
Component
Hydraulic System

THE CO LUBSOIL LUBVIS 746 (500 GAL)

TULCO LUBSOIL LUBVIS 746 (500 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TO50000849	TO90002013	
	Sample Date		Client Info		02 Dec 2022	31 Jan 2022	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m		2	<1	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m	>20	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		2	<1	
	Aluminum	ppm	ASTM D5185m		0	0	
	Lead	ppm	ASTM D5185m		2	1	
	Copper	ppm	ASTM D5185m		1	5	
	Tin	ppm	ASTM D5185m	>20	<1	<1	
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	\15	1	3	
CONTAININATION	Potassium	ppm	ASTM D5185m		30	0	
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water	%	ASTM D6304		0.006	0.003	
	ppm Water	ppm	ASTM D6304		66.3	25.2	
	Particles >4µm	ррпп	ASTM D7647		520	2703	
	Particles >6µm		ASTM D7647		125	493	
	Particles >14µm		ASTM D7647	>160	4	28	
	Particles >21µm		ASTM D7647		1	9	
	Particles >38µm		ASTM D7647		0	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness			>19/17/14	16/14/9	19/16/12	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		9	1	
	Boron	ppm	ASTM D5185m		2	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		<1	0	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		12	0	
	Calcium	ppm	ASTM D5185m	0.45	0	1	
	Phosphorus	ppm	ASTM D5185m	240	44	237	
	Zinc	ppm	ASTM D5185m	=====	7	22	
	Sulfur	ppm	ASTM D5185m	7560	514	6108	
	Acid Number (AN)	mg KOH/g	ASTM D8045	=0 =	0.42	0.43	
	Visc @ 40°C	cSt	ASTM D445		50.5	50.9	
	Visc @ 100°C	cSt	ASTM D445		7.4	7.5	
	Viscosity Index (VI)	Scale	ASTM D2270	111	107	109	





Laboratory Unique Number : 10244969

Sample No. Lab Number : 05710394

: TO50000849

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 06 Dec 2022 : 09 Dec 2022 Diagnosed

: 11 Dec 2022 - Doug Bogart

2929 WEST AIRFIELD DR, DFW AIRPORT DALLAS, TX US 75261 Contact: SCOTT BOYD

Test Package: IND 2 (Additional Tests: KF, KV100, VI) Certificate L2367 scott.boyd@cae.com 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. T: (817)812-6165

F: x:

CAE SIMUFLITE