WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

Machine Id

3400 (75) - DUAL SHEAR (S/N S0305)

Right Gearbox

CHEVRON MEROPA 220 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		Y2K0001711		
	Sample Date		Client Info		02 Jan 2024		
	Machine Age	hrs	Client Info		2400		
	Oil Age	hrs	Client Info		2400		
	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	>200	4		
	Chromium	ppm	ASTM D5185m	>15	0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>15	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	0		
	Lead	ppm	ASTM D5185m	>100	0		
	Copper	ppm	ASTM D5185m	>200	0		
	Tin	ppm	ASTM D5185m	>25	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTARANATION	0.11		AOTM DE405				
CONTAMINATION	Silicon	ppm	ASTM D5185m		1		
There is a moderate amount of silt (particulates < 14 microns in size)	Potassium	ppm	ASTM D5185m		<1		
present in the oil. The water content is negligible.	Water	%	ASTM D6304	>0.2	0.010 107		
	ppm Water Particles >4µm	ppm	ASTM D6304 ASTM D7647		△ 93070		
	Particles >4μm		ASTM D7647		▲ 15896		
	Particles >14µm		ASTM D7647		408		
	Particles >21µm		ASTM D7647		84		
	Particles >38µm		ASTM D7647		4		
	Particles >71µm		ASTM D7647		1		
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/21/16		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
T LOID CONDITION	Boron	ppm	ASTM D5185m	40	30		
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m	10	0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m		17		
	Phosphorus	ppm	ASTM D5185m	270	245		
	Zinc	ppm	ASTM D5185m		0		
	Sulfur	ppm	ASTM D5185m	8600	7437		
	Acid Number (AN)	mg KOH/g		0.64	0.70		
	Visc @ 40°C	cSt	ASTM D445	209	209		





Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 10 Jan 2024 : Y2K0001711 Recieved : 06056642 Diagnosed : 11 Jan 2024 : 10822591 Diagnostician : Wes Davis

Test Package : MOB 2 (Additional Tests: KF, PrtCount) 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.

CARPENTER COMPANY

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

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