WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

OIL ANALYSIS REPORT

TA4 - CROSSOVER TO TANK 1,2,3

Component Gearbox

CHEVRON MEROPA 220 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TR05872277		
	Sample Date		Client Info		01 Jun 2023		
	Machine Age	yrs	Client Info		0		
	Oil Age	yrs	Client Info		1		
	Filter Age	yrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>200	16		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	0		
	Lead	ppm	ASTM D5185m	>50	0		
	Copper	ppm	ASTM D5185m	>200	<1		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	4 95		
Elemental level of silicon (Si) above normal indicating ingress of seal material. Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	0		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	LIGHT		
	Debris	scalar	*Visual	NONE	▲ MODER		
	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		<1		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	40	0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		0		
	Calcium	ppm	ASTM D5185m		16		
	Phosphorus	ppm	ASTM D5185m	270	348		
	Zinc	ppm	ASTM D5185m		365		
	Sulfur	ppm	ASTM D5185m	8600	1543		
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.64	0.38		
	Visc @ 100°C	cSt	ASTM D445	18.8	14.6		





Report Id: HSSSPO [WUSCAR] 05872277 (Generated: 02/09/2024 11:46:51) Rev: 1

Laboratory Sample No. Lab Number : 05872277

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR05872277

Received **Tested** Unique Number : 10512061 Diagnosed

: 15 Jun 2023 Test Package : MOB 2 (Additional Tests: KV100)

: 15 Jun 2023 - Jonathan Hester

: 13 Jun 2023

5521 E SHARP SPOKANE VALLEY, WA US 99218

H & S SERVICES

Contact: RON GROGAN

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

Contact/Location: RON GROGAN - HSSSPO

T:

F: