

Machine Id **TANK 5 DRAG - NORTH UPPER 90** Component **Gearbox** Fluid **CHEVRON MEROPA 220 (--- QTS)**

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

VA	- /	-
		1

All component wear rates are normal.

CONTAMINATION

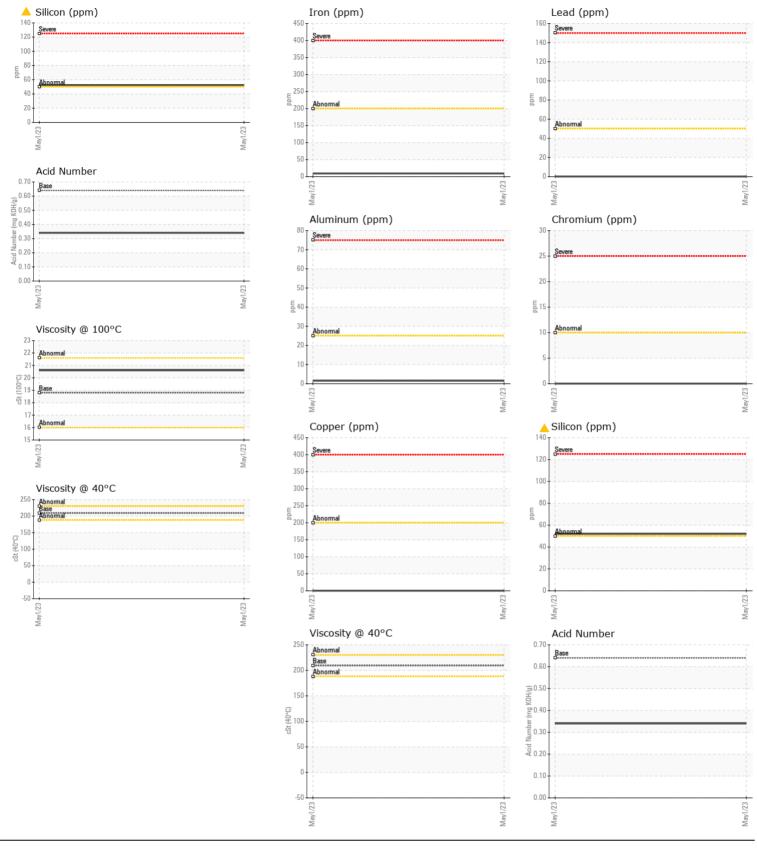
Elemental level of silicon (Si) above normal indicating ingress of seal material.

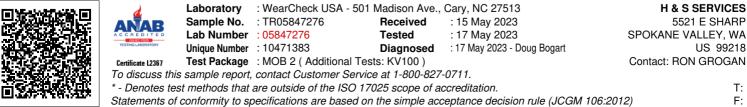
FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05847276		
Sample Date		Client Info		01 May 2023		
Machine Age	yrs	Client Info		3		
Oil Age	yrs	Client Info		3		
Filter Age	yrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
		40TH DE105		•		
Iron	ppm	ASTM D5185m	>200	9		
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	2		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>200	0		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>50	▲ 52		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	ppiii	WC Method	>0.2	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor		*Visual	NORML	NORML		
	scalar			-		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		0		
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		0		
Phosphorus	ppm	ASTM D5185m	270	432		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m	8600	149		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.64	0.34		
Visc @ 100°C	cSt	ASTM D445	18.8	20.6		
	001	A011010443	10.0	20.0		

Contact/Location: RON GROGAN - HSSSPO





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