

OIL ANALYSIS REPORT

TRC 890 VARI-PURPOSE SAE80W90 (--- GAL)

RECOMMENDATION	
----------------	--

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Gear wear is indicated. All other component wear rates are normal.

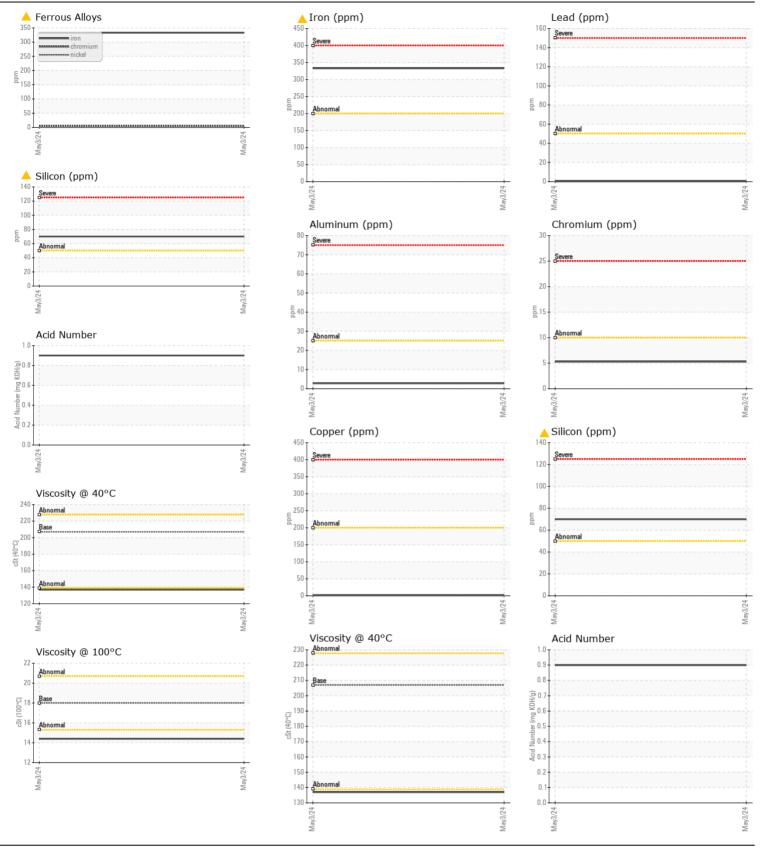
100	ATI	MIN	AV	TIC	ON
001					

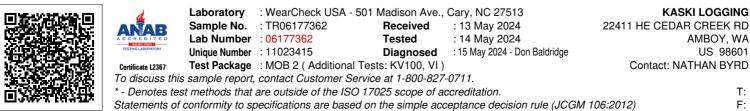
Elemental level of silicon (Si) above normal indicating ingress of seal material.

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		TR06177362		
Sample Date		Client Info		03 May 2024		
Machine Age	hrs	Client Info		5345		
Oil Age	hrs	Client Info		4346		
Filter Age	hrs	Client Info		4346		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>200	A 333		
Chromium	ppm	ASTM D5185m	>10	5		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	3		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>200	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Cillinea			50			
Silicon	ppm	ASTM D5185m	>50	▲ 70		
Potassium	ppm	ASTM D5185m	>20	16 NFC		
Water		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	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		2		
Boron	ppm	ASTM D5185m		19		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		6		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		39		
Phosphorus	ppm	ASTM D5185m	1000	745		
Zinc	ppm	ASTM D5185m		28		
Sulfur	ppm	ASTM D5185m	17000	21875		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.90		
Visc @ 40°C	cSt	ASTM D445	207	137		
Visc @ 100°C	cSt	ASTM D445	18	14.4		
Viscosity Index (VI)	Scale	ASTM D2270	98	103		





Contact/Location: NATHAN BYRD - KASAMB Page 2 of 2