

Machine Id COVINGTON Component Port Genset Fluid CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)

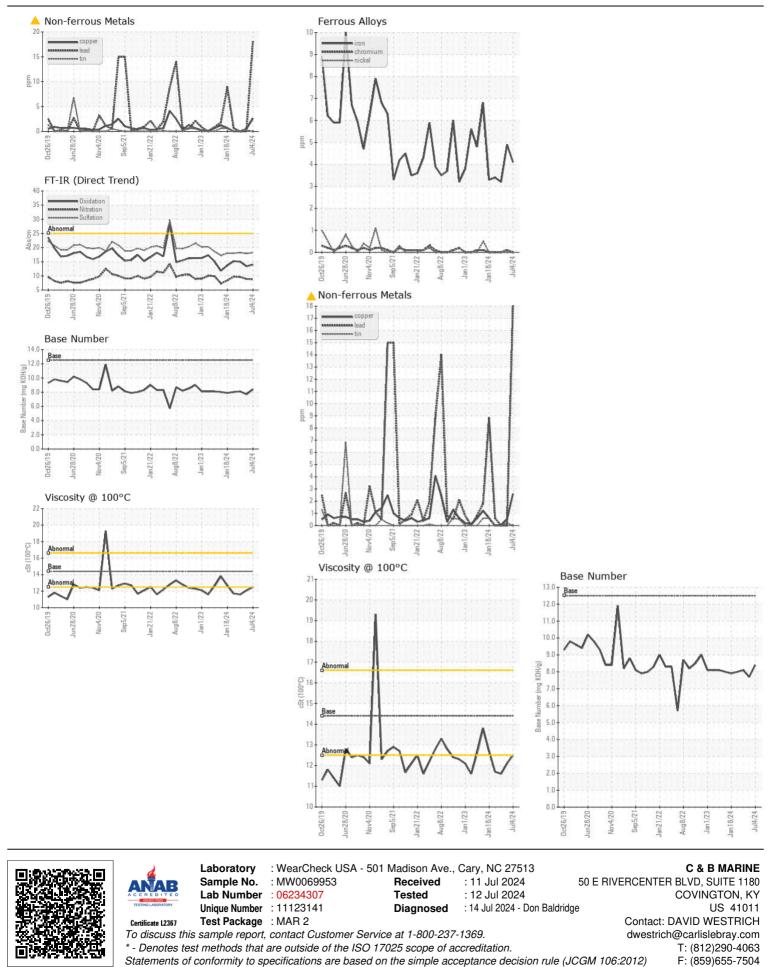
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		MW0069953	MW0069925	MW0062685
	Sample Date		Client Info		04 Jul 2024	13 May 2024	26 Mar 2024
	Machine Age	hrs	Client Info		6364	5890	5390
	Oil Age	hrs	Client Info		500	500	433
	Filter Age	hrs	Client Info		500	500	433
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	4	5	3
	Chromium	ppm	ASTM D5185m		0	<1	0
The lead level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		14	15	14
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m		1	<1	<1
	Lead	ppm	ASTM D5185m		18	0	0
	Copper	ppm	ASTM D5185m		3	<1	0
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m	10	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	0	1
	Fuel		WC Method	>4.0	<1.0	0.2	<b>5</b> .4
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.9	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		18.2	17.9	18.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		3	1	3
	Boron	ppm	ASTM D5185m	151	66	95	82
	Barium	ppm	ASTM D5185m	0.4	0	0	0
	Molybdenum	ppm	ASTM D5185m	250	31	35	32
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m	0	690	747	645
	Calcium	ppm	ASTM D5185m	2046	1605	1566	1462
	Phosphorus	ppm	ASTM D5185m	1043	752	754	670
	Zinc	ppm	ASTM D5185m	943	837	843	723
	Sulfur	ppm	ASTM D5185m	5012	3475	3607	3171
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.4	15.0
	Base Number (BN)	mg KOH/g	ASTM D2896	12.5	8.4	7.7	8.1
	Vier C 10000	- 01		444	10 5	10.1	

Visc @ 100°C cSt ASTM D445 14.4

12.1

**11.6** 

12.5



Contact/Location: DAVID WESTRICH - CBMMEL