

JOHN F SECREST [JOHN F SECREST] 001 565425-1

Port Main Engine

CHEVRON DELO 710 LS (250 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		MW0065924	MW0065919	MW0065936
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		01 Apr 2024	01 Mar 2024	01 Feb 2024
	Machine Age	hrs	Client Info		13251	12507	11813
	Oil Age	hrs	Client Info		13251	12507	11813
	Filter Age	hrs	Client Info		13251	107	0
	Oil Changed		Client Info		N/A	Not Changd	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	17	15	14
	Chromium	ppm	ASTM D5185m	>8	3	2	2
The copper level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	1	0	0
	Titanium	ppm	ASTM D5185m	>3	<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	1	2
	Lead	ppm	ASTM D5185m		7	5	6
	Copper	ppm	ASTM D5185m		6 52	15	32
	Tin	ppm	ASTM D5185m	>14	8	6	6
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	4	5
There is a light concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	<1
	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water	%	ASTM D6304	>0.1	A 0.232		
	ppm Water	ppm	ASTM D6304	>1000	A 2320		
	Glycol	%	*ASTM D2982		0.0	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.6	0.6
	Nitration	Abs/cm			9.0	8.4	8.3
	Sulfation	Abs/.1mm	*ASTM D7415		16.9	17.3	16.8
	Silt Debris	scalar	*Visual	NONE	NONE	NONE	NONE NONE
	Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.1	▲ 0.2%	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m		5	1	2
FLOID CONDITION		ppm	ASTM D5185m ASTM D5185m	>10	5 46	39	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m		40	0	0
	Molybdenum	ppm ppm	ASTM D5185m		50	46	44
	Manganese	ppm	ASTM D5185m		2	1	2
	Magnesium	ppm	ASTM D5185m		14	17	19
	Calcium	ppm	ASTM D5185m		3558	3647	3289
	Phosphorus	ppm	ASTM D5185m		16	9	10
	Zinc	ppm	ASTM D5185m		27	6	19
	o		LOTUDELOE			0.5.7.0	0000

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896 10.5

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.5

2428

9.2

9.01

14.7

2578

8.96

9.2

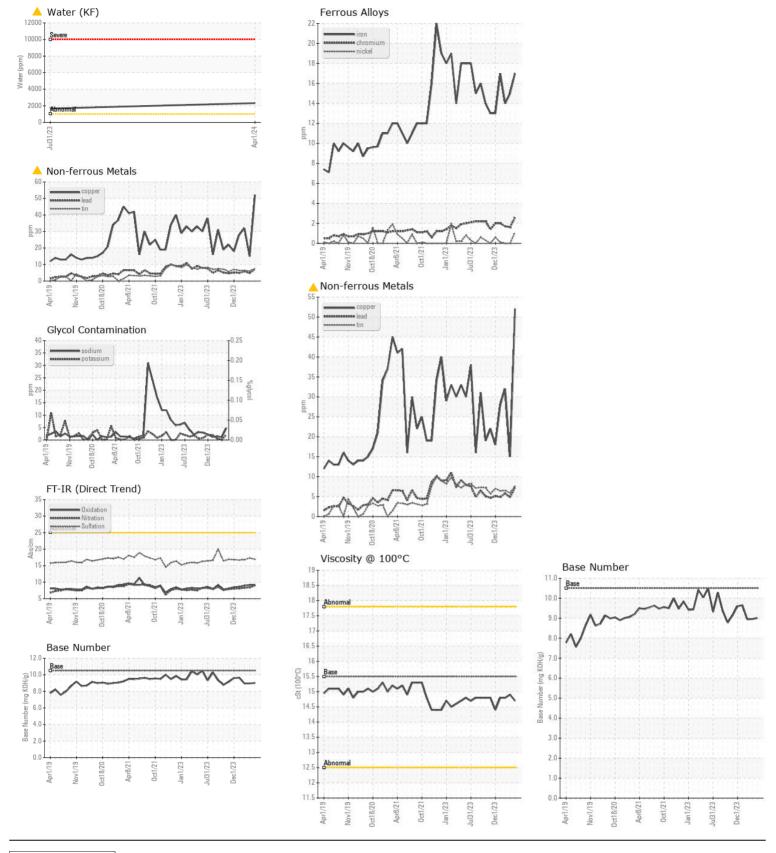
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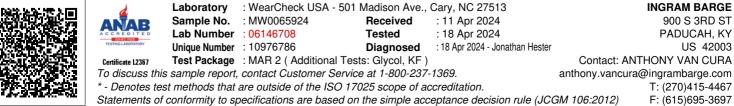
2280

8.95

8.9

14.8





Contact/Location: ANTHONY VAN CURA - INGPAD Page 2 of 2