WEAR CONTAMINATION **FLUID CONDITION**

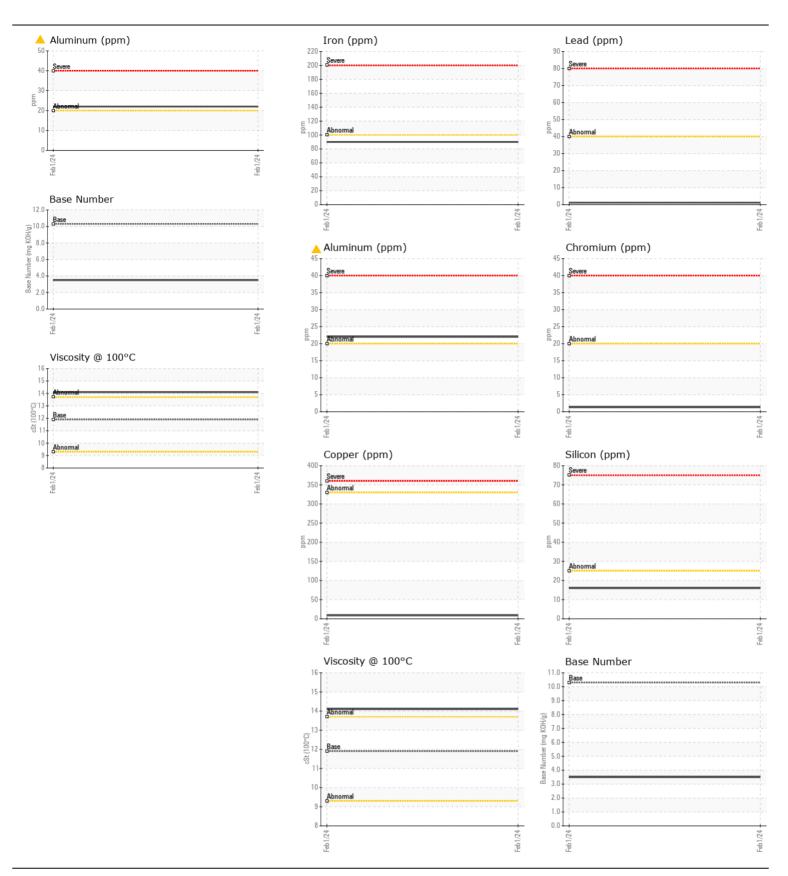
ABNORMAL NORMAL **NORMAL**

Machine Id

3093

Component

Component Diesel Engine							
CHEVRON DELO 400 XLE 10W30 (QTS)							
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		WC0650478		
	Sample Date		Client Info		01 Feb 2024		
	Machine Age	mls	Client Info		277744		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	90		
HEAR	Chromium	ppm	ASTM D5185m		1		
The aluminum level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		<u>^</u> 22		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		9		
	Tin	ppm	ASTM D5185m	>15	3		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	16		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		26		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		1.4		
	Nitration	Abs/cm	*ASTM D7624	>20	15.8		
	Sulfation	Abs/.1mm			34.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML		
			*Visual	>0.2	NEG		
<u></u>	Emulsified Water	Scalai	Visuai	>0.2			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m		33		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		13		
	Molybdenum	ppm	ASTM D5185m		4		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		713		
	Calcium	ppm	ASTM D5185m	2900	1643		
	Phosphorus	ppm	ASTM D5185m	1100	899		
	Zinc	ppm		1200	965		
	Sulfur	ppm	ASTM D5185m	4000	3455		
	Oxidation	Abs/.1mm	*ASTM D7414		36.1		
	Base Number (BN)		ASTM D2896		3.5		
	Visc @ 100°C	cSt	ASTM D445	11.9	14.1		





Certificate L2367

Laboratory Sample No.

: WC0650478 Lab Number : 06085665 Unique Number : 10873110 Test Package : MOB1+

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 : 12 Feb 2024 **Tested**

: 13 Feb 2024 - Sean Felton Diagnosed

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

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