

Machine Id 857-4898 ponent **Diesel Engine** CHEVRON DELO 400 SAE 10W30 (--- GAL) RECOMMENDATION

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

WEAR

Cylinder, crank, or cam shaft wear is indicated.

CONTAMINATION

Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0018904	RPL0014202	RPL0014712
Sample Date		Client Info		07 Jun 2024	09 Feb 2024	20 Oct 2023
Machine Age	hrs	Client Info		2841	2153	27122
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	1 01	63	18
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	42	29	13
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	6	6	2
Tin	ppm	ASTM D5185m	>15	1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
0:1:			05		47	
Silicon	ppm	ASTM D5185m	>25	20	1/	9
Potassium	ppm	ASTM DS185m	>20	100	/4	32
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Giycol	0/		0	NEG	NEG	NEG
SOOT %	%	*ASTM D7844	>3	0.8	0.4	0.1
Nilfation	ADS/CITI	ASTM D7415	>20	10.0	12.2 00 E	7.4
Sullation	ADS/. IIIIII	ASTM D/415	>30	28.4	23.3	21.9
SIII	scalar	*Visual	NONE	NONE	NONE	NONE
Depris Canal/Dirt	scalar	visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	Scalar	*Visual	NORIVIL		NORIVIL	NORM
	Scalar	*Misual		NURML		
	scalar	visual	>0.2	NEG	NEG	INEG
Sodium	maa	ASTM D5185m		5	2	2
Boron	mag	ASTM D5185m		15	20	45
Barium	ppm	ASTM D5185m		0	1	<1
Molvbdenum	mag	ASTM D5185m		45	48	41
Manganese	ppm	ASTM D5185m		2	2	<1
Magnesium	mag	ASTM D5185m		587	522	543
Calcium	ppm	ASTM D5185m		1814	1687	1593
Phosphorus	ppm	ASTM D5185m	1260	815	786	785
Zinc	ppm	ASTM D5185m	1400	1000	909	907
Sulfur	ppm	ASTM D5185m		2682	2444	2529
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.7	24.6	19.8
Base Number (BN)	mg KOH/a	ASTM D2896	10.1	5.6	7.2	9.9
Visc @ 100°C	cSt	ASTM D445	11.1	12.4	11.6	11.1

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



Sample No. Received 6300 N. Loop East : RPL0018904 : 01 Jul 2024 Lab Number : 06225536 Tested Houston, TX : 03 Jul 2024 : 03 Jul 2024 - Don Baldridge US 77026 Unique Number : 11103733 Diagnosed Test Package : FLEET (Additional Tests: KV40) Contact: RODNEY BRIGGS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. briggsr@rushenterprises.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: RODNEY BRIGGS - PAC7001 Page 2 of 2