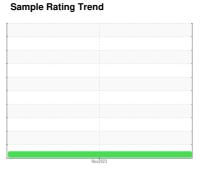


OIL ANALYSIS REPORT

• Sam



NORMAL



13027

Component **Diesel Engine**

CHEVRON DELO 400 SAE 10W30 (--- QTS)

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) 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. There is no indication of any contamination in the oil.

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.

				Nov2023		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
	ATION		IIIIIIIIIIIII			
Sample Number		Client Info		WC0540401		
Sample Date		Client Info		20 Nov 2023		
Machine Age	mls	Client Info		51159		
Oil Age	mls	Client Info		51159		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	21		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	1		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		14		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		25		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		213		
Calcium	ppm	ASTM D5185m		1960		
Phosphorus	ppm	ASTM D5185m	1260	822		
Zinc	ppm	ASTM D5185m	1400	1140		
Sulfur	ppm	ASTM D5185m		3182		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	71		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2		
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.67		
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OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number

: WC0540401 : 06058325 : 10829707 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 11 Jan 2024 Recieved Diagnosed : 12 Jan 2024 : Sean Felton Diagnostician

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)

LTI/MILKY WAY - VANCOUVER

2631 SCOTT AVE VANCOUVER, WA US 98660

Contact: BRANDON MILLER brandonm@lynden.com

T: (206)256-2577

F: (206)256-4068

Contact/Location: BRANDON MILLER - LTIVAN