

OIL ANALYSIS REPORT





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

DIAGNOSIS

Machine Id 8519 Component Diesel Engine

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

Cylinder, crank, or cam shaft wear is indicated.

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 acceptable for the time in service.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0073334	PCA0088555	PCA0073414
Sample Date		Client Info		15 Dec 2023	03 Aug 2023	26 Jan 2023
Machine Age	mls	Client Info		563793	516224	451200
Oil Age	mls	Client Info		43000	0	48290
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINAT	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	 101	85	46
Chromium	ppm	ASTM D5185m	>20	6	6	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	87	A 39	17
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	13	11	8
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	24
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		63	70	49
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		1008	1085	550
Calcium	ppm	ASTM D5185m		1076	1357	1719
Phosphorus	ppm	ASTM D5185m	1260	1030	1124	810
Zinc	ppm	ASTM D5185m	1400	1315	1440	980
Sulfur	ppm	ASTM D5185m		2288	3032	2152
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	9	8
Sodium	ppm	ASTM D5185m		3	2	0
Potassium	ppm	ASTM D5185m	>20	148	6	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	1.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	11.4	13.7	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	26.8	24.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	26.1	24.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.7	5.3	8.6



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Contact/Location: FRANK DIETZ - MIDFAR