

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Water

{UNASSIGNED} 834092

Component Natural Gas Engine CHEVRON DELO 400 LE 15W40 (8 GAL)

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. No other contaminants were detected 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.



WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	46	43	49
Chromium	ppm	ASTM D5185m	>4	2	1	<1
Nickel	ppm	ASTM D5185m	>2	2	1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	31	26	29
Lead	ppm	ASTM D5185m	>30	2	<1	0
Copper	ppm	ASTM D5185m	>35	15	17	18
Tin	ppm	ASTM D5185m	>4	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method			history1	history2
Boron	ppm	ASTM D5185m		8	11	19
Barium	ppm	ASTM D5185m		0	0	5
Molybdenum	ppm	ASTM D5185m		58	58	54
Manganese	ppm	ASTM D5185m		13	12	13
Magnesium	ppm	ASTM D5185m		804	743	682
Calcium	ppm	ASTM D5185m		1124	1127	1111
Phosphorus	ppm	ASTM D5185m	1200	699	714	598
Zinc	ppm	ASTM D5185m	1300	966	922	814
Sulfur	ppm	ASTM D5185m	3200	2326	2447	2572

CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	32	31	37
Sodium	ppm	ASTM D5185m		2	4	5
Potassium	ppm	ASTM D5185m	>20	124	117	125
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.7	11.3	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.3	21.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	19.5	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	2.6	4.0	4.4



OIL ANALYSIS REPORT



Submitted By: JOSHUA TINKER