



Machine Id 2330

Component 1 Diesel Engine

Fluid CHEVRON DELO 400 SDE SAE 15W40 (44 QTS)

COMPONENT CONDITION SUMMARY



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.

Sample Status				ABNORMAL	
Silicon	ppm	ASTM D5185m	>30	<u> </u>	
Visc @ 100°C	cSt	ASTM D445	14.6	11.3	

Customer Id: ERGNEW604 Sample No.: WC0828975 Lab Number: 06000976 Test Package: FLEET



To manage this report scan the QR code

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RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id 2330

Component

1 Diesel Engine

CHEVRON DELO 400 SDE SAE 15W40 (44 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

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828975		
Sample Date		Client Info		29 Sep 2023		
Machine Age	mls	Client Info		36436		
Oil Age	mls	Client Info		36436		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	80		
Chromium	ppm	ASTM D5185m	>4	2		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	18		
Lead	ppm	ASTM D5185m	>45	5		
Copper	ppm	ASTM D5185m	>85	25		
Tin	ppm	ASTM D5185m	>4	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		34		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		22		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m		747		
Calcium	ppm	ASTM D5185m		1348		
Phosphorus	ppm	ASTM D5185m	760	722		
Zinc	ppm	ASTM D5185m	800	880		
Sulfur	ppm	ASTM D5185m	3000	3092		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4 9		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	79		
Fuel	%	ASTM D3524	>5	0.7		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	10.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0		
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.1		



OIL ANALYSIS REPORT

