

OIL ANALYSIS REPORT

PILOT Machine id 244240

Diesel Engine

CHEVRON DELO 400 SAE 10W30 (10 GAL)

Sample Rating Trend **WEAR**

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

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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.

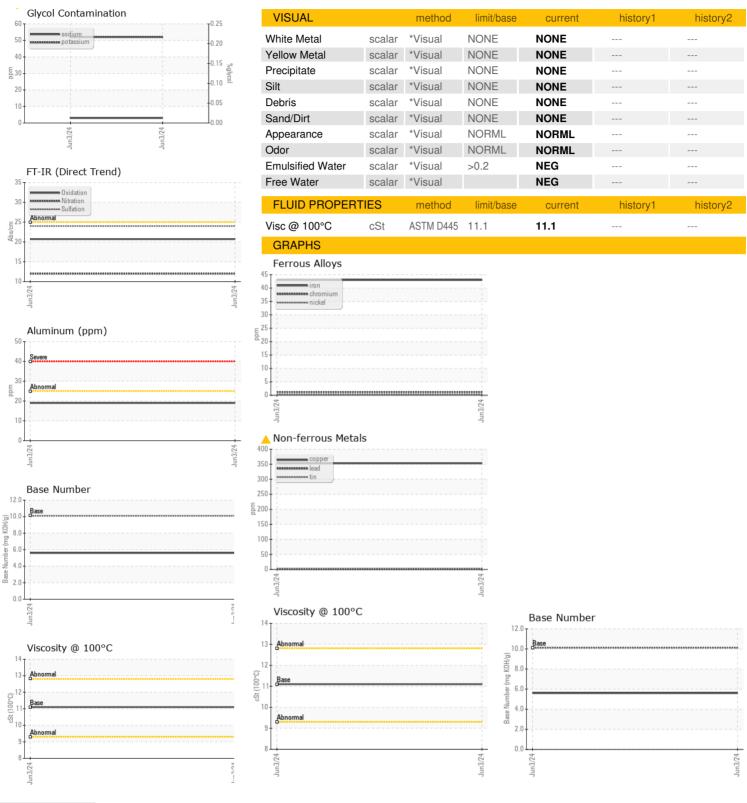
Fluid Condition

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

)				Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0941036		
Sample Date		Client Info		03 Jun 2024		
Machine Age	mls	Client Info		88705		
Oil Age	mls	Client Info		45005		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<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	43		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	19		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	<u>▲</u> 353		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		22		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		759		
Calcium	ppm	ASTM D5185m		1399		
Phosphorus	ppm	ASTM D5185m	1260	758		
Zinc	ppm	ASTM D5185m	1400	866		
Sulfur	ppm	ASTM D5185m		2872		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	52		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9		
Nitration	Abs/cm	*ASTM D7624	>20	12.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7		
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.6		



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Certificate 12367

Laboratory Sample No. **Lab Number** : 06208496 Unique Number : 11075957

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0941036 Test Package : FLEET

Received : 13 Jun 2024 **Tested** : 14 Jun 2024 Diagnosed

: 14 Jun 2024 - Don Baldridge

80 Roadway Drive Carlisle, PA US 17015

Saia LTL Freight - Carlisle HBG

Contact: Roger Ashway roashway@saia.com T: (800)765-7242

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)