

OIL ANALYSIS REPORT

Sample Rating Trend



Area Nitrogen Machine Id NP03

Component

Diesel Engine

Fluid CHEVRON DELO 400 SD 15W30 (42 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) 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.

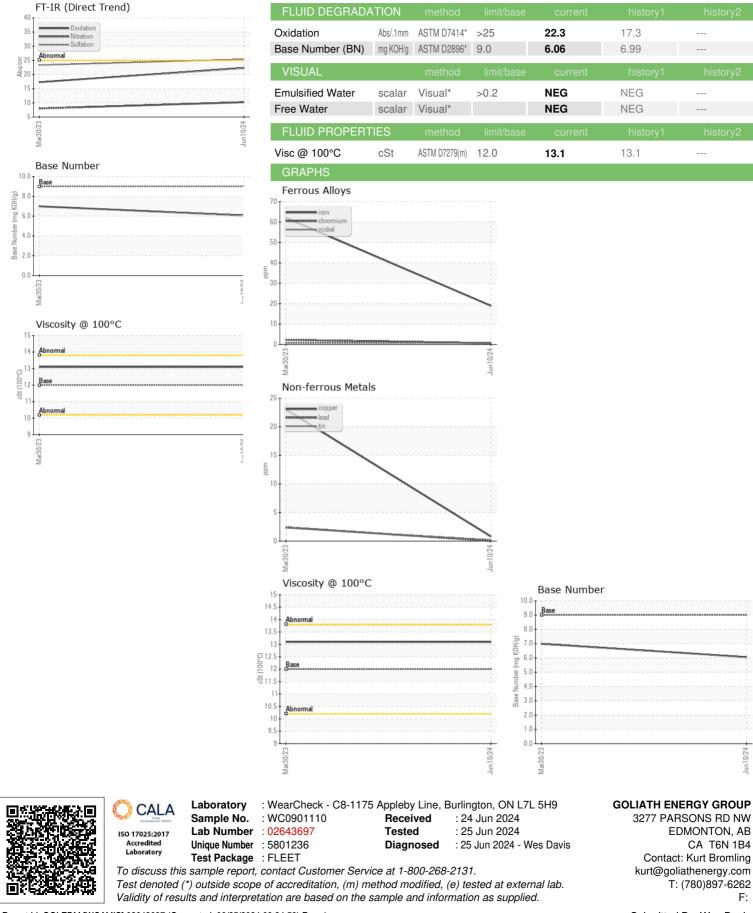
Fluid Condition

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

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901110	WC0792211	
Sample Date		Client Info		10 Jun 2024	30 Mar 2023	
Machine Age	hrs	Client Info		3680	341	
Oil Age	hrs	Client Info		480	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	19	62	
Chromium	ppm	ASTM D5185(m)	>20	<1	2	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	<1	
Silver	ppm	ASTM D5185(m)	>2	<1	<1	
Aluminum	ppm	ASTM D5185(m)	>20	6	9	
Lead	ppm	ASTM D5185(m)	>40	0	2	
Copper	ppm	ASTM D5185(m)	>330	<1	23	
Tin	ppm	ASTM D5185(m)	>15	<1	2	
Antimony	ppm	ASTM D5185(m)		0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		85	184	
Barium	ppm	ASTM D5185(m)		0	6	
Molybdenum	ppm	ASTM D5185(m)		2	77	
Manganese	ppm	ASTM D5185(m)		<1	5	
Magnesium	ppm	ASTM D5185(m)		48	634	
Calcium	ppm	ASTM D5185(m)		2055	1362	
Phosphorus	ppm	ASTM D5185(m)	1200	868	763	
Zinc	ppm	ASTM D5185(m)	1200	1076	731	
Sulfur	ppm	ASTM D5185(m)	3100	2572	3233	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	43	
Sodium	ppm	ASTM D5185(m)		2	5	
Potassium	ppm	ASTM D5185(m)	>20	18	25	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.5	0	
Nitration	Abs/cm	ASTM D7624*	>20	10.2	8.0	
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.4	23.3	



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