

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 130108M

Component Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Fluid

The copper level is abnormal. Cylinder, crank, or cam shaft wear is indicated. Elemental level of copper (Cu) probably due to leaching of copper from copper components (i.e. cooling core) by the oil additives.

Contamination

There is no indication of any contamination in the oil.

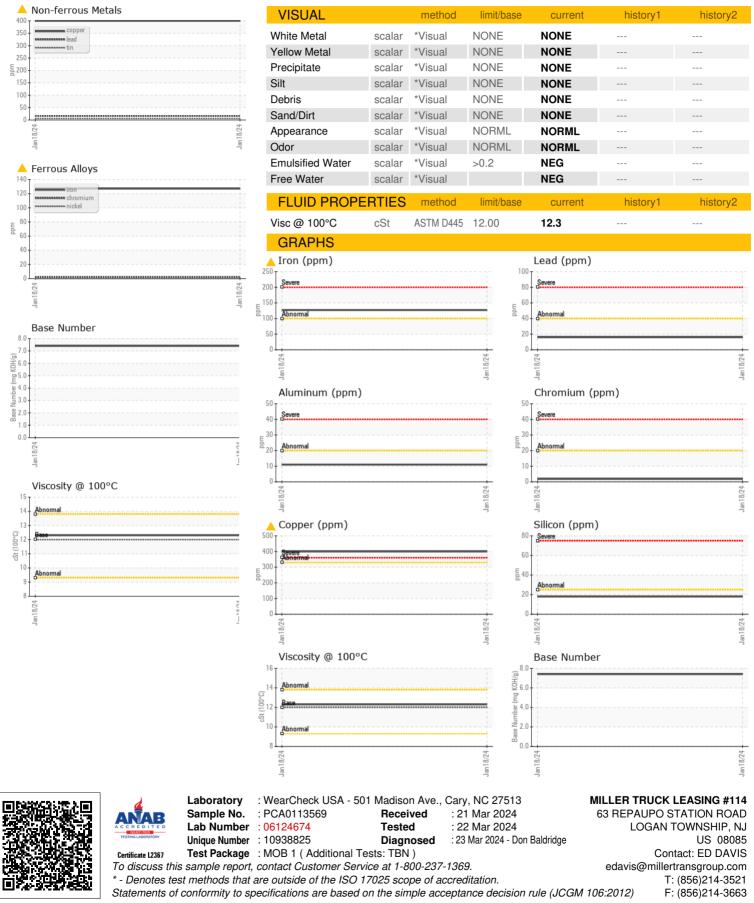
Fluid Condition

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.

TS)				Jan 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113569		
Sample Date		Client Info		18 Jan 2024		
Machine Age	mls	Client Info		41233		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	127		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	11		
_ead	ppm	ASTM D5185m	>40	16		
Copper	ppm	ASTM D5185m	>330	<u> </u>		
Tin	ppm	ASTM D5185m	>15	6		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	74		
Vanganese	ppm	ASTM D5185m	0	2		
Magnesium	ppm	ASTM D5185m	950	1079		
Calcium	ppm	ASTM D5185m	1050	1718		
Phosphorus	ppm	ASTM D5185m	995	1307		
Zinc	ppm	ASTM D5185m	1180	1754		
Sulfur	ppm	ASTM D5185m	2600	3228		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	10		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6		
Nitration	Abs/cm	*ASTM D7624	>20	16.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.0		
FLUID DEGRAI		method	limit/base	current	history1	history2
FLUID DEGRAL	DATION Abs/.1mm	method *ASTM D7414	limit/base	current 26.0	history1	history2



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Contact/Location: ED DAVIS - MILLOG