

OIL ANALYSIS REPORT



Machine Id

338705 Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

A Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

📥 Wear

Cylinder, crank, or cam shaft wear is indicated.

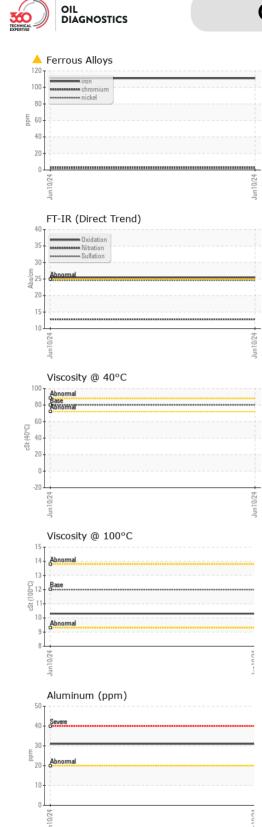
Contamination

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. There is no indication of any contamination in the oil.

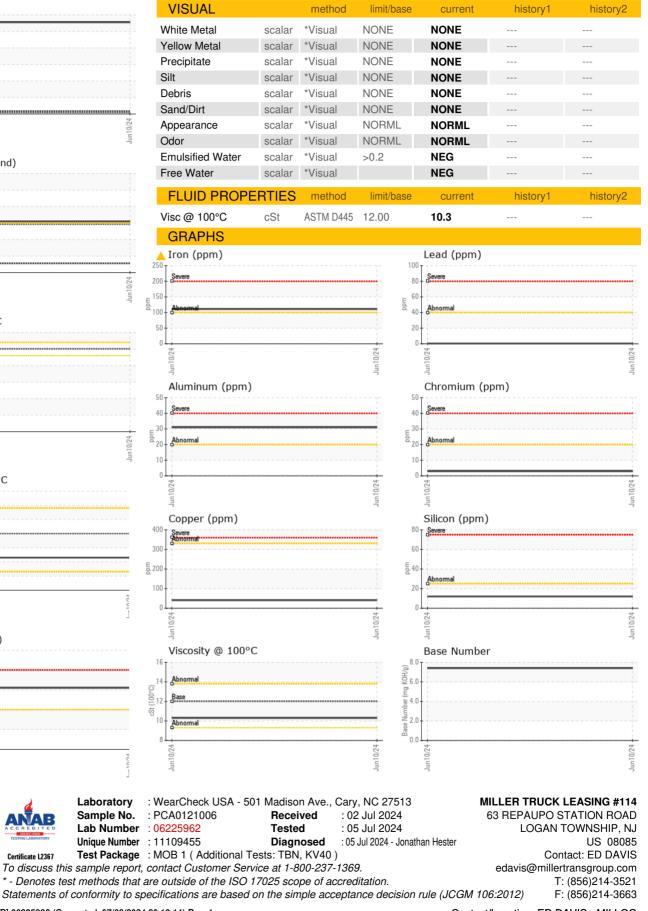
Fluid Condition

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)				Jun 2024		
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121006		
Sample Date		Client Info		10 Jun 2024		
Achine Age	mls	Client Info		0		
Dil Age	mls	Client Info		0		
Dil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Vater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	A 111		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	2		
Fitanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	31		
_ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	41		
īn	ppm	ASTM D5185m	>15	5		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	21		
Barium	ppm	ASTM D5185m	0	1		
Nolybdenum	ppm	ASTM D5185m	50	51		
Manganese	ppm	ASTM D5185m	0	11		
Magnesium	ppm	ASTM D5185m	950	600		
Calcium	ppm	ASTM D5185m	1050	1841		
Phosphorus	ppm	ASTM D5185m	995	823		
Zinc	ppm	ASTM D5185m	1180	1066		
Sulfur	ppm	ASTM D5185m	2600	2256		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	67		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	12.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	25.4		
JXIUalion	AU3/.111111	A01101414	220	23.4		



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Contact/Location: ED DAVIS - MILLOG