

OIL ANALYSIS REPORT



Machine Id

745188 Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

🔺 Wear

Metal levels are typical for a new component breaking in.

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.

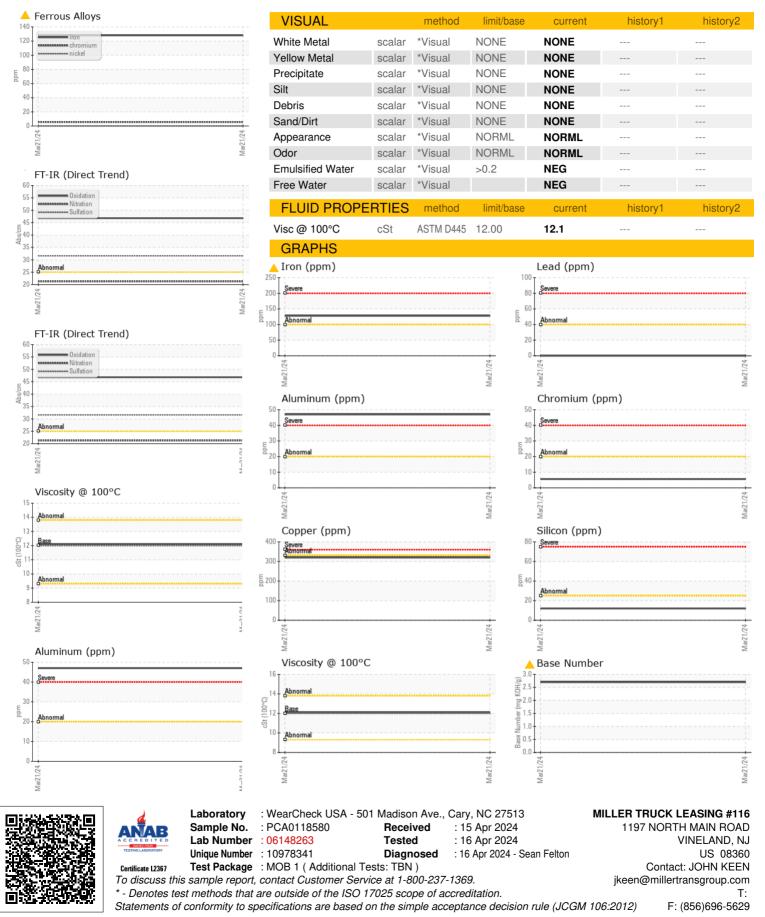
Fluid Condition

The BN level is low.

àAL)				Mar2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118580		
Sample Date		Client Info		21 Mar 2024		
Machine Age	mls	Client Info		770561		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<u> </u>		
Chromium	ppm	ASTM D5185m	>20	6		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	47		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	320		
Tin	ppm	ASTM D5185m	>15	4		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	23		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	43		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	950	539		
Calcium	ppm	ASTM D5185m	1050	1810		
Phosphorus	ppm	ASTM D5185m	995	738		
Zinc	ppm	ASTM D5185m	1180	876		
Sulfur	ppm	ASTM D5185m	2600	1787		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	134		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6		
Nitration	Abs/cm	*ASTM D7624	>20	21.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.6		
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	46.8		
Base Number (BN)	mg KOH/g	ASTM D2896		<mark>/</mark> 2.7		



OIL ANALYSIS REPORT



Report Id: MILVIN [WUSCAR] 06148263 (Generated: 04/16/2024 16:13:05) Rev: 1

Contact/Location: JOHN KEEN - MILVIN