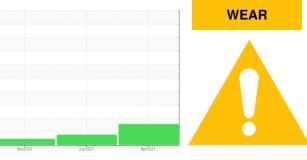


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

738206 Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. 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

There is an abnormal amount of solids and carbon present in the oil.

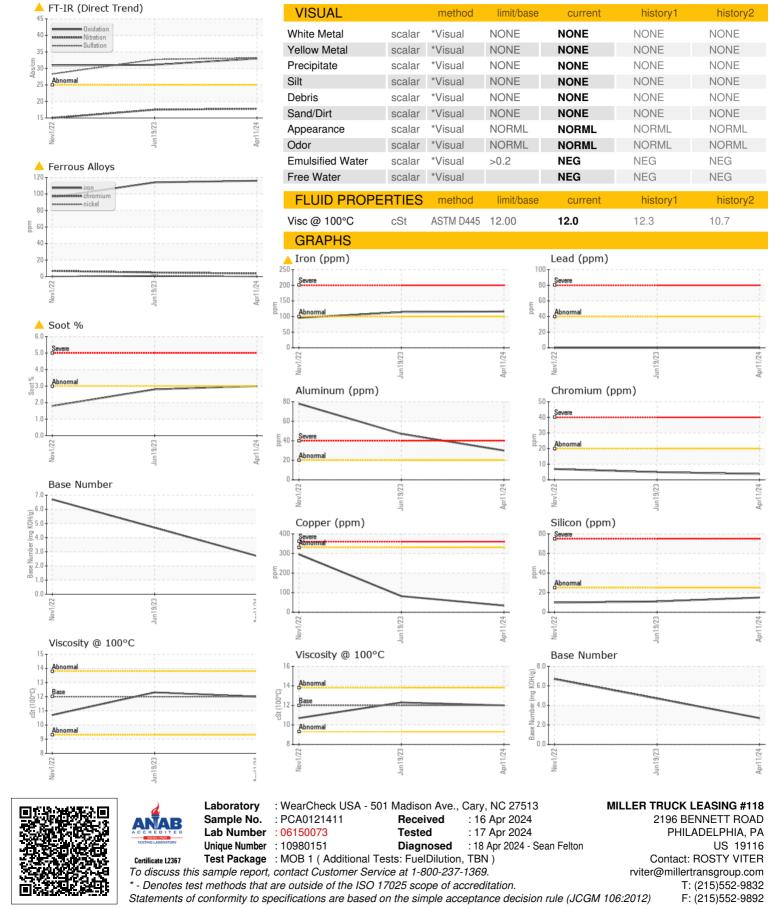
Fluid Condition

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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121411	PCA0100748	PCA0076746
Sample Date		Client Info		11 Apr 2024	19 Jun 2023	01 Nov 2022
Machine Age	mls	Client Info		63191	142302	58041
Oil Age	mls	Client Info		63191	142302	58041
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	116	1 14	96
Chromium	ppm	ASTM D5185m	>20	4	5	7
Nickel	ppm	ASTM D5185m	>4	0	1	<1
Titanium	ppm	ASTM D5185m		6	29	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	3
Aluminum	ppm	ASTM D5185m	>20	30	47	78
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	34	82	295
Tin	ppm	ASTM D5185m	>15	2	3	6
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	3	9	17
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	67	42	49
Manganese	ppm	ASTM D5185m	0	2	3	5
Magnesium	ppm	ASTM D5185m	950	1047	739	531
Calcium	ppm	ASTM D5185m	1050	1417	1688	1828
Phosphorus	ppm	ASTM D5185m	995	1185	972	739
Zinc Sulfur	ppm	ASTM D5185m	1180	1453	1280	952 2319
	ppm	ASTM D5185m	2600	2926	3005	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	11	10
Sodium	ppm	ASTM D5185m		4	5	6
Potassium	ppm	ASTM D5185m	>20	64	106	189
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	▲ 3	2.8	1.8
Nitration	Abs/cm	*ASTM D7624	>20	17.8	17.5	15
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.2	32.7	28.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.0	31.1	30.9
Base Number (BN)	mg KOH/g	ASTM D2896		2.7	4.7	6.7



OIL ANALYSIS REPORT



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Contact/Location: ROSTY VITER - MILPHINE