

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

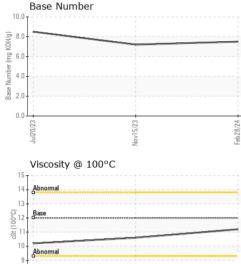
Fluid Condition

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

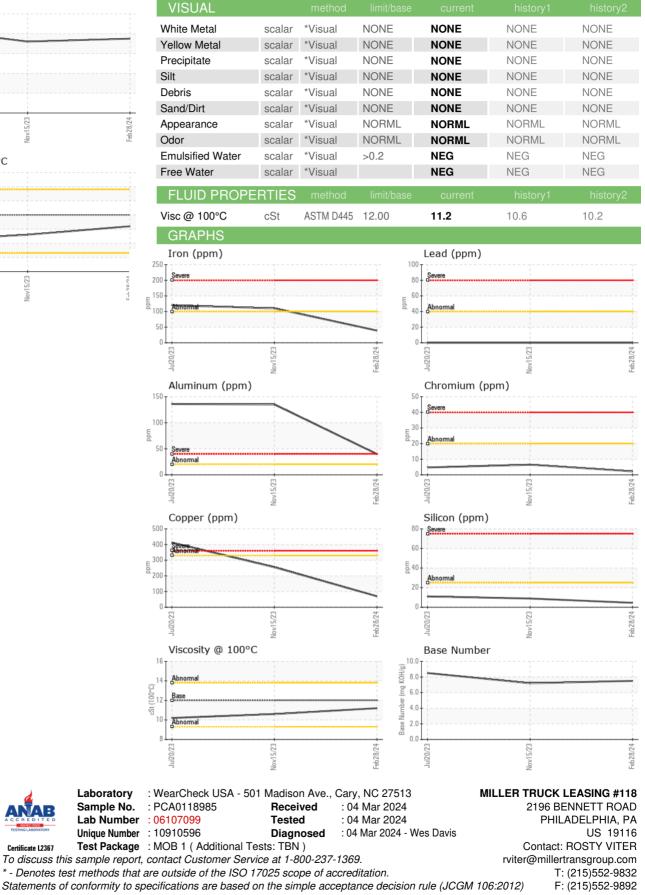
GAL)		Ju	12023	Nov2023 Feb203	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118985	PCA0112209	PCA0100808
Sample Date		Client Info		28 Feb 2024	15 Nov 2023	20 Jul 2023
Machine Age	mls	Client Info		16791	40896	24449
Oil Age	mls	Client Info		16791	40896	24449
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	39	110	120
Chromium	ppm	ASTM D5185m	>20	2	6	5
Nickel	ppm	ASTM D5185m	>4	<1	1	1
Titanium	ppm	ASTM D5185m		19	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	40	135	136
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	70	255	412
Tin	ppm	ASTM D5185m	>15	<1	4	4
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	27	30	57
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	50	37	42	59
Manganese	ppm	ASTM D5185m	0	2	5	7
Magnesium	ppm	ASTM D5185m	950	669	528	711
Calcium	ppm	ASTM D5185m	1050	1354	1724	2384
Phosphorus	ppm	ASTM D5185m	995	1015	753	1026
Zinc	ppm	ASTM D5185m	1180	1188	913	1240
Sulfur	ppm	ASTM D5185m	2600	3037	1974	3237
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	9	11
Sodium	ppm	ASTM D5185m		3	7	9
Potassium	ppm	ASTM D5185m	>20	92	331	330
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.9	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	23.7	23.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	25.0	22.2
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	7.2	8.5
	0 0					



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hw15/22



Certificate L2367

Contact/Location: ROSTY VITER - MILPHINE