

OIL ANALYSIS REPORT

Sample Rating Trend





Component
Diesel Engine

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

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

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 suitable for further service.

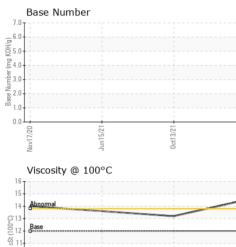
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0100742	PCA0057159	PCA0053242
Sample Date		Client Info		30 Jun 2023	13 Oct 2021	15 Jun 2021
Machine Age	mls	Client Info		6758	57252	70330
Oil Age	mls	Client Info		6758	57252	70330
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	39	49	107
Chromium	ppm	ASTM D5185m	>20	1	3	8
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	24	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	12	21	<u> </u>
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	6	44	103
Tin	ppm	ASTM D5185m	>15	<1	0	3
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	26	8	30
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	74	39	50
Manganese	ppm	ASTM D5185m	0	<1	1	3
Magnesium	ppm	ASTM D5185m	950	245	728	822
Calcium	ppm	ASTM D5185m	1050	2135	1690	1446
Phosphorus	ppm	ASTM D5185m	995	1031	977	965
Zinc	ppm	ASTM D5185m	1180	1313	1175	1249
Sulfur	ppm	ASTM D5185m	2600	3955	3518	1908
CONTAMINAN	то	method	limit/bass		In the transmission	history 2
	15	methou	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	6	8	11
Silicon	ppm	ASTM D5185m		6	8	11
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	6 8	8 4	11 6
Silicon Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	6 8 16	8 4 40	11 6 ▲ 127
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	6 8 16 current	8 4 40 history 1	11 6 ▲ 127 history 2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >3	6 8 16 current 0.9	8 4 40 history 1 1.2	11 6 ▲ 127 history 2 1.5
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20	6 8 16 current 0.9 11.2	8 4 40 history 1 1.2 15.1	11 6 ▲ 127 history 2 1.5 18
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	6 8 16 current 0.9 11.2 24.9	8 4 40 history 1 1.2 15.1 28.3	11 6 ▲ 127 history 2 1.5 18 31.1



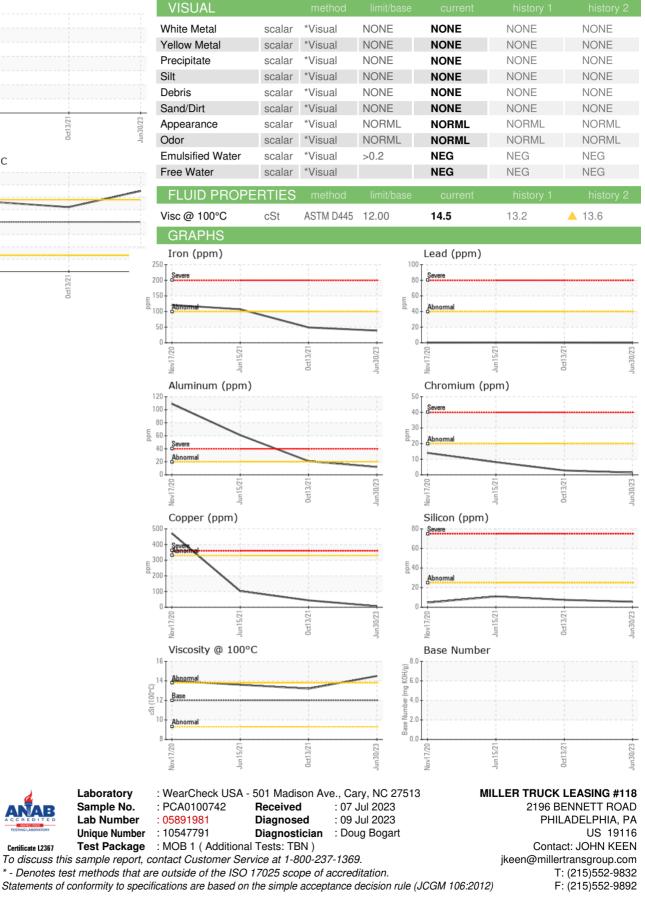
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Certificate L2367

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