

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

490285

Diesel Engine

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

DIAGNOSIS

Recommendation

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	history1	history2
Sample Number		Client Info		PCA0110630	PCA0071723	PCA0029348
Sample Date		Client Info		13 Mar 2024	14 Dec 2022	07 Jan 2021
Machine Age	mls	Client Info		309596	230116	101972
Oil Age	mls	Client Info		15899	60019	1879
Oil Changed		Client Info		Not Changd	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	17	39	10
Chromium	ppm	ASTM D5185m	>20	2	3	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		57	9	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	17	10
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	2	11	18
Tin	ppm	ASTM D5185m	>15	<1	2	0
Antimony	ppm	ASTM D5185m				8
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	70	6	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	19	55	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	491	907	994
Calcium	ppm		1050	1524	1314	1112
Phosphorus	ppm	ASTM D5185m	995	899	970	1072
Zinc	ppm		1180	1075	1244	1201
Sulfur	ppm	ASTM D5185m	2600	3474	2987	2466
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	4
Sodium	ppm	ASTM D5185m		3	6	3
Potassium	ppm	ASTM D5185m	>20	6	6	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	1.8	0.4
Nitration	Abs/cm	*ASTM D7624		9.1	11.8	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	25.3	19.1
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	19.0	14.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	5.7	
:21:16) Rev: 1				Contact/Location: RON ROBERTS - MILLAN		

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Abnorma

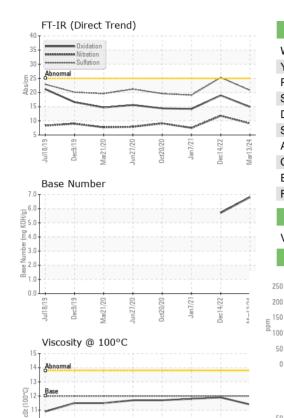
Dec 9/19

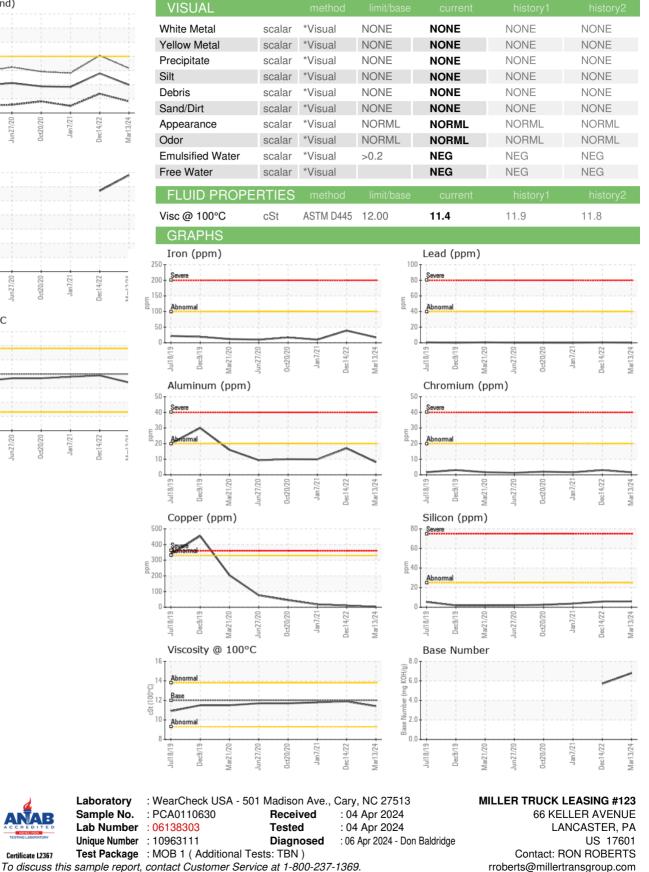
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OIL ANALYSIS REPORT





* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

50

50

40

30

10

0

500

400

300

200

100 Ω

16

1.

8

-St (100°C)

Laboratory

Sample No.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate 12367

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