

OIL ANALYSIS REPORT

Sample Rating Trend





BM-109 Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (10 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

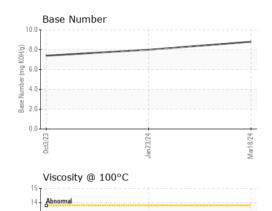
Fluid Condition

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

N SHP 10W30 (1	0 GAL)	00	12023	Jan 2024 Mar 20	124	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117751	PCA0114021	PCA010522
Sample Date		Client Info		18 Mar 2024	23 Jan 2024	03 Oct 2023
Machine Age	mls	Client Info		222575	210537	194064
Oil Age	mls	Client Info		12038	16473	20711
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	6	11	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	6	10
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	2	2
Tin	ppm	ASTM D5185m	>15	0	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	1	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	64	52	61
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	950	1044	924	1004
Calcium	ppm	ASTM D5185m	1050	1201	1011	1099
Phosphorus	ppm	ASTM D5185m	995	1174	996	988
Zinc	ppm	ASTM D5185m	1180	1362	1143	1346
Sulfur	ppm	ASTM D5185m	2600	4121	2727	2913
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	7	10
Sodium	ppm	ASTM D5185m		2	5	6
Potassium	ppm	ASTM D5185m	>20	2	5	17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.0	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.3	20.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	15.2	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	8.0	7.4



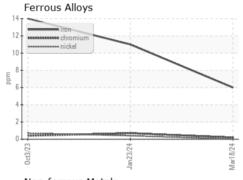
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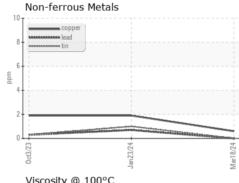


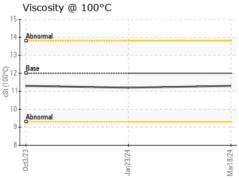
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

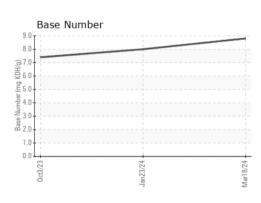
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.2	11.3

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06123058 Unique Number : 10937209

: PCA0117751 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 19 Mar 2024 : 20 Mar 2024 : 20 Mar 2024 - Wes Davis **BLUE MAX TRUCKING**

1015 E. WESTINGHOUSE BLVD. CHARLOTTE, NC

US 28273 Contact: Jody Greer

jgreer@bluemaxtrucking.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (980)225-9968 F: (704)588-2901

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