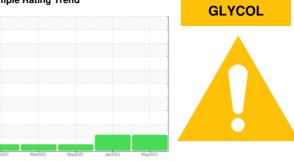


OIL ANALYSIS REPORT





188683 Component Diesel Engine

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

DIAGNOSIS

KAST

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

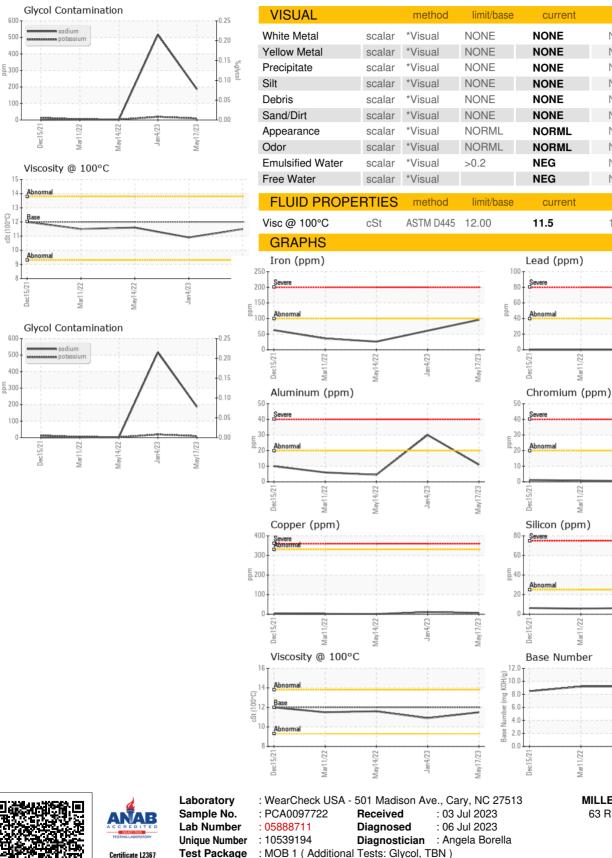
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0097722	PCA0090042	PCA0068547
Sample Date		Client Info		17 May 2023	04 Jan 2023	14 May 2022
Machine Age	mls	Client Info		79705	71118	57000
Oil Age	mls	Client Info		0	7777	10000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL
-		una a tha a al	line it /le e e e			
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	96	61	26
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	11	30	4
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	7	11	1
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	nnm	ASTM D5185m	2	16	45	22
Barium	ppm ppm	ASTM D5185m		2	1	0
Molybdenum		ASTM D5185m	50	2 74	74	70
Manganese	ppm	ASTM D5185m		1	1	<1
•	ppm	ASTM D5185m	950	764	823	755
Magnesium Calcium	ppm	ASTM D5185m	1050	1152	1113	1047
	ppm		995		941	869
Phosphorus	ppm	ASTM D5185m		951		
Zinc	ppm	ASTM D5185m	1180	1108	1102	1041
Sulfur	ppm	ASTM D5185m	2600	2944	3689	2583
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	15	27	6
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	2
Potassium	ppm	ASTM D5185m	>20	10	19	3
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	1	0.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	11.1	7.0	9.1
Sulfation	Abs/.1mm	*ASTM D7415		21.7	18.3	20.4
FLUID DEGRAD	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	12.9	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	10.9	9.2
	ing iton/y	10111102030			10.0	0.2



OIL ANALYSIS REPORT



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.

MILLER TRUCK LEASING #114 63 REPAUPO STATION ROAD LOGAN TOWNSHIP, NJ US 08085 Contact: ED DAVIS edavis@millertransgroup.com T: (856)214-3521 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (856)214-3663

lan4/23

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Contact/Location: ED DAVIS - MILLOG

history 1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

/lav14/22

May14/22

4/22

Mav1

Mav14/22

NEG

NEG

10.9

history 2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

11.6

an4/23

Jan4/23