

OIL ANALYSIS REPORT

Sample Rating Trend





Diesel Engine Elui

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

DIAGNOSIS

Machine Id 8523 Component

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

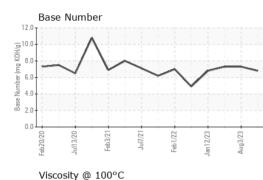
Fluid Condition

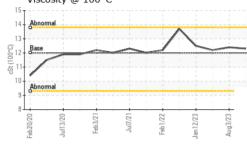
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0073326	PCA0088557	PCA0088562
Sample Date		Client Info		19 Sep 2023	03 Aug 2023	13 Apr 2023
Machine Age	mls	Client Info		514363	479013	448302
Oil Age	mls	Client Info		3530	0	31138
Oil Changed		Client Info		Changed	N/A	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	38	30	30
Chromium	ppm	ASTM D5185m	>20	3	3	1
Nickel	ppm	ASTM D5185m	>4	2	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	14	15
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	10	6	5
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	<1	<1
Barium	ppm	ASTM D5185m	0	9	0	0
Molybdenum	ppm	ASTM D5185m	50	90	68	69
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	950	1347	1061	1129
Calcium	ppm	ASTM D5185m	1050	1466	1078	1270
Phosphorus	ppm	ASTM D5185m	995	1353	1073	1158
Zinc	ppm	ASTM D5185m	1180	1749	1351	1479
Sulfur	ppm	ASTM D5185m	2600	3692	3149	3241
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	6	4
Sodium	ppm	ASTM D5185m		0	1	1
Potassium	ppm	ASTM D5185m	>20	5	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2	1.1	1.1
A Process of	AL /	*ASTM D7624	>20	10.8	10.7	10.5
Nitration	Abs/cm					
Nitration	Abs/cm Abs/.1mm	*ASTM D7415	>30	23.3	22.5	22.7
	Abs/.1mm	*ASTM D7415			22.5 history1	22.7 history2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3		
Sulfation	Abs/.1mm DATION	*ASTM D7415 method	>30 limit/base	23.3 current	history1	history2

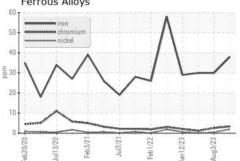


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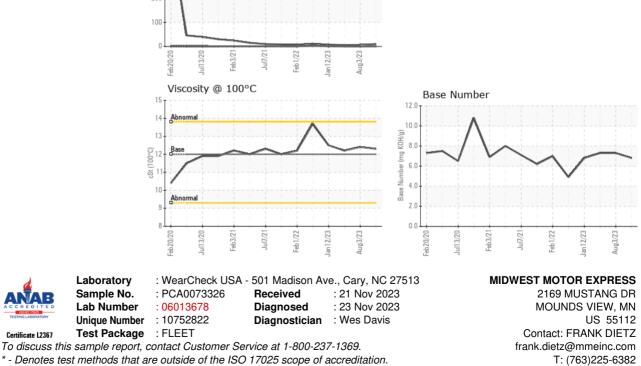
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	12.3	12.4	12.2
GRAPHS						
Ferrous Alloys						



Non-ferrous Metals

lead

500



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

Contact/Location: FRANK DIETZ - MIDFAR

F: x: