

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

#### 388513 Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- QTS)

### DIAGNOSIS

#### 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.

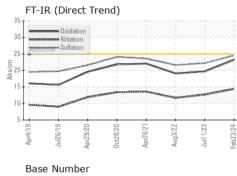
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0110225	PCA0099659	PCA0077025			
Sample Date		Client Info		23 Feb 2024	11 Jul 2023	03 Aug 2022			
Machine Age	mls	Client Info		760446	0	121873			
Oil Age	mls	Client Info		20000	10000	15000			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				Changed NORMAL  C    limit/base  current  0    -5  <1.0  0    -0.2  NEG  0    imit/base  current  0    -100  35  0    -20  <1  0    -3  0  0    -20  10  0    -33  0  0    -40  4  0    -330  4  0    -40  0  0    -40  0  0    -40  0  0    -40  0  0    -40  0  0    -40  0  0    -40  0  0    -15  1  1		NORMAL			
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>100	35	23	14			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	10	7	2			
Lead	ppm	ASTM D5185m	>40	4	3	1			
Copper	ppm	ASTM D5185m	>330	4	2	1			
Tin	ppm	ASTM D5185m	>15	1	<1	<1			
Antimony	ppm	ASTM D5185m							
Vanadium	ppm	ASTM D5185m		0	<1	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	2	11	15	12			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	50	73	73	66			
Manganese	ppm	ASTM D5185m	0	1	<1	<1			
Magnesium	ppm	ASTM D5185m	950	904	837	828			
Calcium	ppm	ASTM D5185m	1050	1226	1188	1179			
Phosphorus	ppm	ASTM D5185m	995	1034	938	1023			
Zinc	ppm	ASTM D5185m	1180	1264	1151	1207			
Sulfur	ppm	ASTM D5185m	2600	3526	3237	3505			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	4	4	3			
Sodium	ppm	ASTM D5185m		9	11	5			
Potassium	ppm	ASTM D5185m	>20	6	4	3			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	1.5	1.3	0.7			
Nitration	Abs/cm	*ASTM D7624	>20	14.4	12.7	11.7			
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	22.2	21.6			
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	19.7	19.1			
			-						
Base Number (BN)	ma KOH/a	ASTM D2896			8.2	9.2			
Base Number (BN) 7:44:46) Rev: 1	mg KOH/g	ASTM D2896		7.3	8.2 ation: Anthony (	9.2 Cursi - MILNEW			

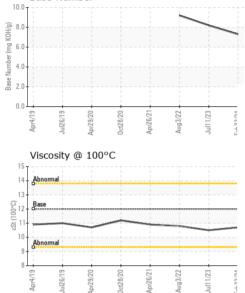
Report Id: MILNEW [WUSCAR] 06147091 (Generated: 04/15/2024 17:44:46) Rev: 1

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# **OIL ANALYSIS REPORT**





VIS	SUAL				meth	od	limit/b	ase	(	curren	t	hist	tory1		histor	y2
White	e Metal		scal	ar	*Visua	ıl	NONE		NC	ONE		NON	E	Γ	NONE	
Yello	w Meta	I	scal	ar	*Visua	ıl	NONE		NC	ONE		NON	E	Ν	IONE	
Preci	ipitate		scal	ar	*Visua	ıl	NONE		NC	ONE		NON	E	Ν	NONE	
Silt			scal	ar	*Visua	ıl	NONE		NC	ONE		NON	E	Ν	IONE	
Debris		scal	alar *Visual		ıl	NONE NONE		NONE NONE			NONE NONE		NONE NONE			
Sand/Dirt		scal	ar	*Visual												
Appearance		scal	ar	*Visual		NORML		NC	ORML		NORML		NORML		L	
Odor		scal	ar	*Visua	ıl	NORM	L	NC	ORML		NOR	ML	Ν	NORM	L	
Emul	Isified W	Vater	scal	ar	*Visua	ıl	>0.2		NE	G		NEG		Ν	NEG	
Free	Water		scal	ar	*Visua	ıl			NE	G		NEG		١	NEG	
FL	UID P	ROPI	ERTIE	ES	meth	od	limit/b	ase	(	curren	t	hist	tory1		histor	y2
	@ 100°		cSt		ASTM I	D445	12.00		10	.7		10.5		1	0.8	
	RAPHS								-							
250 T 3	n (ppm	)						100	Lea	d (ppr	n)					
200 - Seve	re			-				80	Sever	e						
e 150-								e <sup>60</sup>								
100 Abn	ormal			-				E 40	Abno	rmal						
50-								20	-							
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40 - Seve	re							40	Sever	e						
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Cop	oper (p	pm)							Silic	on (p	om)					
400 Seve	are onmal							80	Sever			1	1			
300								60								
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Apr4/19	Jul26/19	Apr29/20	0ct28/20	Apr26/21	Aug3/22	Jul11/23	Feb23/24		Apr4/19 -	Jul26/19	Apr29/20	0ct28/20	Apr26/21	Aug3/22	Jul11/23	Eeh 23/24
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(100-00) 12 Base	2				*****			0.0 (ju)								
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Apr4/19 -	Jul26/19	Apr29/20	0ct28/20	Apr26/21	Aug3/22 .	Jul11/23	Feb23/24 .		Apr4/19	Jul26/19	Apr29/20	0ct28/20	Apr26/21	Aug3/22 -	Jul11/23	10000
: PCA01 : 06147	WearCheck USA - 501 Madison Ave., Cary, NC 27513    PCA0110225  Received  : 12 Apr 2024    06147091  Tested  : 15 Apr 2024    10977169  Diagnosed  : 15 Apr 2024 - Wes Davis    MOB 1 (Additional Tests: TBN )  : 10 Apr 2024 - Wes Davis				ivis	MILLER TRUCK LEASING #12 107 HOW LAN NEW BRUNSWICK, N US 0890										

Unique Number : 10977169 Certificate 12367

Test Package : MOB 1 (Additional Tests: TBN) 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.

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

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