

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

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

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

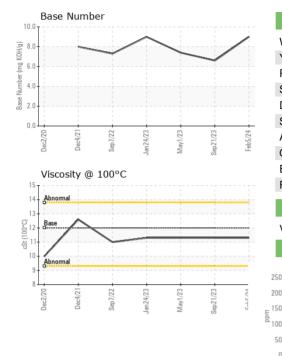
Fluid Condition

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

TS)		Dec2020	Dec2021 Sep-2022 Jac2023 May2023 Sep2022 Feb2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0117003	PCA0106261	PCA0095942			
Sample Date		Client Info		05 Feb 2024	21 Sep 2023	01 May 2023			
Machine Age	mls	Client Info		55233	52125	45634			
Oil Age	mls	Client Info		0	0	0			
Oil Changed		Client Info		Not Changd	Changed	Not Changd			
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	7	37	22			
Chromium	ppm	ASTM D5185m	>20	<1	2	1			
Nickel	ppm	ASTM D5185m	>4	0	<1	<1			
Titanium	ppm	ASTM D5185m		<1	0	0			
Silver	ppm	ASTM D5185m	>3	0	<1	0			
Aluminum	ppm	ASTM D5185m	>20	2	10	6			
Lead	ppm	ASTM D5185m	>40	0	<1	0			
Copper	ppm	ASTM D5185m	>330	1	4	3			
Tin	ppm	ASTM D5185m	>15	<1	2	<1			
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	6	5	14			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	50	59	68	62			
Manganese	ppm	ASTM D5185m	0	<1	1	<1			
Magnesium	ppm	ASTM D5185m	950	895	1036	928			
Calcium	ppm	ASTM D5185m	1050	1051	1265	1133			
Phosphorus	ppm	ASTM D5185m	995	1007	1121	1027			
Zinc	ppm	ASTM D5185m	1180	1158	1467	1259			
Sulfur	ppm	ASTM D5185m	2600	2999	3501	3675			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	0	8	6			
Sodium	ppm	ASTM D5185m		1	0	0			
Potassium	ppm	ASTM D5185m	>20	0	6	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.1	0.7	0.4			
Nitration	Abs/cm	*ASTM D7624	>20	5.5	11.1	8.3			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	22.3	18.2			
		method	limit/base	current	history1	history2			
FLUID DEGRAI	JATION	method	mmbddoo	current	motory	motory			
FLUID DEGRAI	Abs/.1mm	*ASTM D7414	>25	13.9	19.2	15.6			



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NAB	Laboratory Sample No. Lab Number	: PCA0117003	Tested : 23		2 Feb 2024 3 Feb 2024 Feb 2024 - Wes Davis		MILLER TRUCK LEASING #119 39 INDUSTRIAL AVE HASBROUCK HEIGHTS, N US 0760 Contact: MIKE LONGETTE				
		0ec2/20	Sep7/22	Jan24/23	May1/23 Sep21/23	.0 Bi	Dec2/20	Sep7/22 +	May1/23 +	Sep21/23	Feh 5/24
		14 Abnormal 12 Base 10 Abnormal	_			8. 6. 4. Base Number (mg K0H/g)	0			\checkmark	
		Viscosity @	100°C			(^B /H0 8		er		1	
		Dec2/20	Sep7/22	Jan 24/23	May1/23 Sep21/23	Feb5/24	Dec2/20	Sep 7/22 Jan 24/23	May1/23	Sep21/23	Eah 5/24
		100									
		300 - Ē 200 -				6 틆4	0 - Abnormal				
		Copper (ppr	m)			8	Silicon (ppm	1) 	1	1	
		Dec2/20 Dec4/21	Sep 7/22	Jan24/23	May1/23 Sep21/23	Feb5/24	Dec2/20 Dec4/21	Sep7/22 Jan24/23	May1/23	Sep21/23	Eah 5/24
			2	3	3		21	3	5	5	v
		a ³⁰ 20 - Abnormal				^{Ed} 2	0 - Abnormal				
		40 Severe				4	0 0 Severe		1		
		Aluminum (βĻ	See 2		Chromium (W	e,	
		Dec2/20 Dec4/21	Sep7/22 -	Jan24/23 +	May1/23 +	Feb5/24	Dec2/20	Sep 7/22	May1/23	Sep21/23	Each E /2.4
		Abnormal 50 - 50 -	-				0 - Abnormal				
Jan 24/23 May 1/23	Sep21/23	= 150-				6	i0				
		Iron (ppm)				10	Sminn				
		GRAPHS									
		Visc @ 100°C		cSt	ASTM D445	12.00	11.3	11.3	, 	11.3	
		FLUID PP	_		method	limit/base	current	histor	v1	histor	rv2
		Emulsified Wa Free Water		scalar scalar	*Visual *Visual	>0.2	NEG NEG	NEG NEG		NEG NEG	
Jan 24/23 May 1/23	Sep21/23 Feb5/24	Odor		scalar	*Visual	NORML	NORML	NORM		NORM	
23	23	Sand/Dirt Appearance		scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE		NONE	1
		Debris		scalar	*Visual	NONE	NONE	NONE		NONE	
		Silt		scalar	*Visual	NONE	NONE	NONE		NONE	
	\sim	Yellow Metal Precipitate		scalar scalar	*Visual *Visual	NONE	NONE NONE	NONE		NONE	
		White Metal		scalar	*Visual	NONE	NONE	NONE		NONE	

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (201)528-7053

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Contact/Location: MIKE LONGETTE - MILRUT