

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL NORMAL



DT823
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 10W30 (36 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

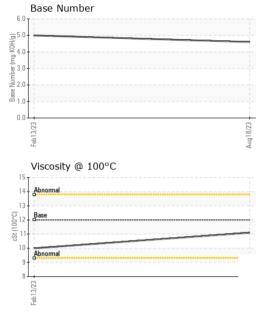
Fluid Condition

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 (3	6QIS)		Feb 2023	Aug ² 023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0096952	PCA0091194	
Sample Date		Client Info		18 Aug 2023	13 Feb 2023	
Machine Age	mls	Client Info		50971	24693	
Oil Age	mls	Client Info		24693	24693	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	33	66	
Chromium	ppm	ASTM D5185m	>20	2	2	
Nickel	ppm	ASTM D5185m	>5	2	4	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>20	11	26	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	43	120	
Tin	ppm	ASTM D5185m	>15	2	5	
Vanadium	ppm	ASTM D5185m	710	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	52	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	71	119	
Manganese	ppm	ASTM D5185m	0	2	6	
Magnesium	ppm	ASTM D5185m	950	901	660	
Calcium	ppm	ASTM D5185m	1050	1320	1386	
Phosphorus	ppm	ASTM D5185m	995	969	671	
Zinc	ppm	ASTM D5185m	1180	1276	851	
Sulfur	ppm	ASTM D5185m	2600	3186	2110	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	64	
Sodium	ppm	ASTM D5185m		7	4	
Potassium	ppm	ASTM D5185m	>20	22	76	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	10.6	12.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	24.6	
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	24.2	
Base Number (BN)	mg KOH/g	ASTM D2896		4.6	5.0	



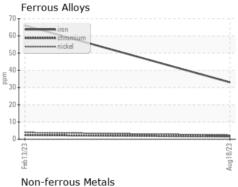
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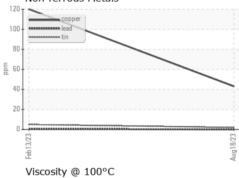


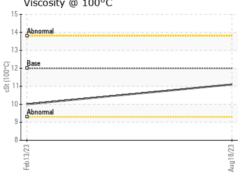
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

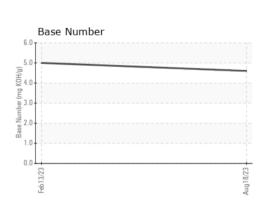
FLUID PRO	PERHES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	10.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10621195 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0096952 : 05935924

Received Diagnosed

: 28 Aug 2023 : 28 Aug 2023 Diagnostician : Wes Davis

NW WHITE & CO - ANDERSON DIVISION

2605 RIVER RD PIEDMONT, SC US 29673

Contact: James Threatt jthreatt@nwwhite.com T: (864)918-4646

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)