

OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 20073 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (9)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

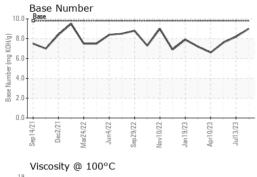
Fluid Condition

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

PON SITE 15VV4U (9)						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102979	PCA0098092	PCA0098121
Sample Date		Client Info		25 Aug 2023	13 Jul 2023	19 May 2023
Machine Age	hrs	Client Info		9946	9538	9175
Oil Age	hrs	Client Info		408	363	303
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	10	4	6
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	2	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m		5	3	1
Lead	ppm	ASTM D5185m	>40	0	1	2
Copper	ppm	ASTM D5185m		<1	<1	1
Tin		ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m	>10	<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	62	54
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1055	941	916
Calcium	ppm	ASTM D5185m	1070	1154	1063	1009
Phosphorus	ppm	ASTM D5185m	1150	1112	980	924
Zinc	ppm	ASTM D5185m	1270	1320	1216	1212
Sulfur	ppm	ASTM D5185m	2060	3921	2921	3473
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		6	8	4
Potassium	ppm	ASTM D5185m	>20	6	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.5	8.0	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	19.9	18.0
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	16.0	12.8
Base Number (BN)	mg KOH/g		9.8	9.0	8.2	7.6
	1119 1101119	. 10 1111 D2000	0.0	0.0	U.L	7.0



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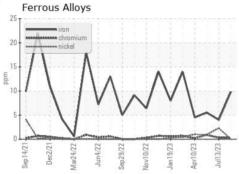


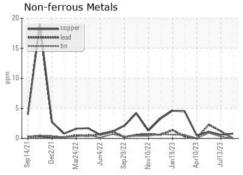
Visc		@ 10	0°C						
17- (0-16 Base 15- 3314									
13 Abno	rmal	_							
Sep14/21	Dec2/21	Mar24/22	Jun4/22	Sep29/22	Nov10/22	Jan19/23	Apr10/23 -	Jul13/73	

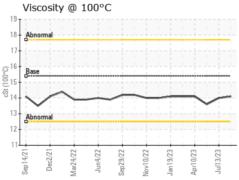
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

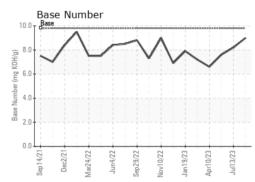
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.0	13.6

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10632329 Test Package : FLEET

: PCA0102979 : 05941717

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 05 Sep 2023 : 05 Sep 2023 Diagnostician : Wes Davis

LRS - BETHEL HEIGHTS (NWA AR)

848 HWY 264 E BETHEL HEIGHTS, AR US 72764

Contact: ROBERT HEATH rheath@Irsrecycles.com T: (479)305-8958

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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