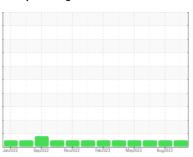


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 20079 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

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.

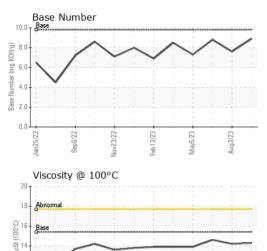
Fluid Condition

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

GAL)		Jan 2022	Sep 2022 Nov 2022	Feb 2023 May 2023 Au	1g2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0106031	PCA0102960	PCA0098102
Sample Date		Client Info		23 Oct 2023	03 Aug 2023	19 Jun 2023
Machine Age	hrs	Client Info		8947	8480	8124
Oil Age	hrs	Client Info		467	356	306
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	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2						
Iron	ppm	ASTM D5185m	>100	7	11	2
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	0
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	0
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	0	<1	0	0
Barium	ppm	ASTM D5185m	0	4	1	0
Molybdenum	ppm	ASTM D5185m	60	65	62	47
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	931	938	761
Calcium	ppm	ASTM D5185m	1070	1081	1059	866
Phosphorus	ppm	ASTM D5185m	1150	1108	991	821
Zinc	ppm	ASTM D5185m	1270	1218	1207	1013
Sulfur	ppm	ASTM D5185m	2060	3287	3218	3198
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	3
Sodium	ppm	ASTM D5185m		2	7	3
Potassium	ppm	ASTM D5185m	>20	4	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.9	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.9	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.6	18.4
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	15.0	14.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.9	7.6	8.8
	my Normy	, 10 TW D2000	0.0	0.0	7.0	0.0



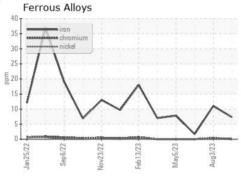
OIL ANALYSIS REPORT

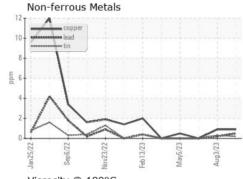


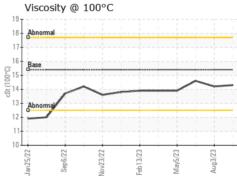
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

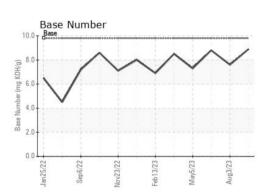
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.2	14.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: PCA0106031 : 05994974 : 10723334

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

: 31 Oct 2023 : 01 Nov 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)

F: