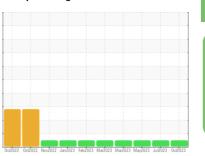


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
221002
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (9 GAL)

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.

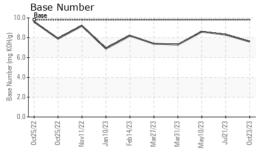
Fluid Condition

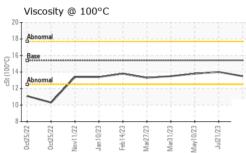
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	Oct2022 Oct2022 Nov2022 Jun2023 Fant2023 Fant2023 Mar2023 Mar2023 Jun2023 Jun2023 Oct2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0105996	PCA0095301	PCA0098082	
Sample Date		Client Info		23 Oct 2023	21 Jul 2023	10 May 2023	
Machine Age	hrs	Client Info		3347	3021	0	
Oil Age	hrs	Client Info		326	906	0	
Oil Changed		Client Info		Not Changd	Changed	N/A	
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	9	9	3	
Chromium	ppm	ASTM D5185m	>20	0	<1	0	
Nickel	ppm	ASTM D5185m	>5	4	8	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	3	5	
Lead	ppm	ASTM D5185m	>40	<1	<1	0	
Copper	ppm	ASTM D5185m	>330	4	3	1	
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	3	12	
Barium	ppm	ASTM D5185m	0	4	0	0	
Molybdenum	ppm	ASTM D5185m	60	67	81	70	
Manganese	ppm	ASTM D5185m	0	<1	<1	0	
Magnesium	ppm	ASTM D5185m	1010	942	1280	1044	
Calcium	ppm	ASTM D5185m	1070	1110	1402	1184	
Phosphorus	ppm	ASTM D5185m	1150	1044	1333	1082	
Zinc	ppm	ASTM D5185m	1270	1241	1622	1372	
Sulfur	ppm	ASTM D5185m	2060	2919	4278	3753	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	6	8	
Sodium	ppm	ASTM D5185m		6	12	6	
Potassium	ppm	ASTM D5185m	>20	10	5	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.5	6.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	19.5	18.7	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	15.4	14.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	8.3	8.6	



OIL ANALYSIS REPORT

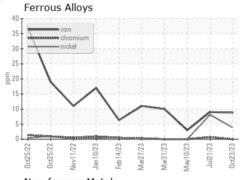


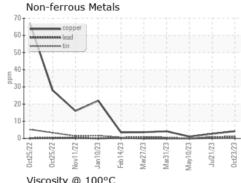


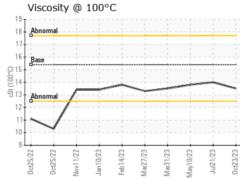
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

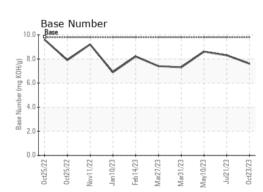
FLUID PROPI	EKITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.0	13.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10723361 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0105996 : 05995001

Received : 31 Oct 2023 Diagnosed : 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: