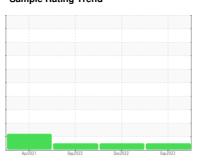


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
8561
Component
Diesel Eng

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 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

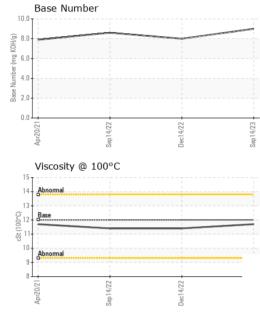
Fluid Condition

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

Apr2021 Smp2022 Dm2022 Smp2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0088666	PCA0051836	PCA0073425
Sample Date		Client Info		14 Sep 2023	14 Dec 2022	14 Sep 2022
Machine Age	mls	Client Info		262945	195133	187799
Oil Age	mls	Client Info		262945	36896	22836
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	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	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	30	15
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	1
Aluminum	ppm	ASTM D5185m	>20	2	3	4
Lead	ppm	ASTM D5185m	>40	0	<1	6
Copper	ppm	ASTM D5185m	>330	2	5	1
Tin	ppm	ASTM D5185m	>15	0	<1	2
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	2
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	16	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	44	61	61
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	950	537	943	996
Calcium	ppm	ASTM D5185m	1050	1599	1126	1081
Phosphorus	ppm	ASTM D5185m	995	829	985	1010
Zinc	ppm	ASTM D5185m	1180	910	1224	1245
Sulfur	ppm	ASTM D5185m	2600	2407	3231	3007
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	10	7
Sodium	ppm	ASTM D5185m		5	2	2
Potassium	ppm	ASTM D5185m	>20	4	1	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.9	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.3	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	20.5	21.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	16.1	16.7
Base Number (BN)	mg KOH/g	ASTM D2896		9.0	8	8.6



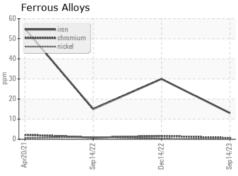
OIL ANALYSIS REPORT

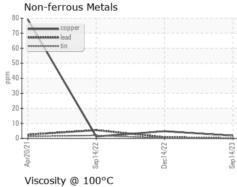


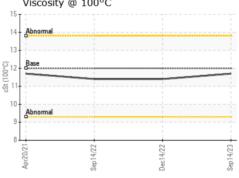
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

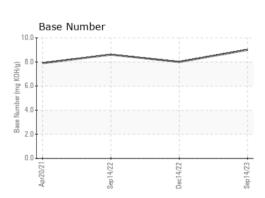
L LOID PROPE	THIES	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	12.00	11.7	11.4	11.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

: PCA0088666 : 05994040 Unique Number : 10722400 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 Oct 2023 Diagnosed : 01 Nov 2023

Diagnostician : Don Baldridge

MOUNDS VIEW, MN

Contact: FRANK DIETZ frank.dietz@mmeinc.com

MIDWEST MOTOR EXPRESS

T: (763)225-6382 F: x:

2169 MUSTANG DR

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) US 55112