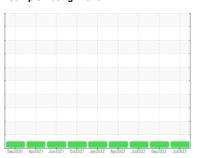


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **8528** Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- 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

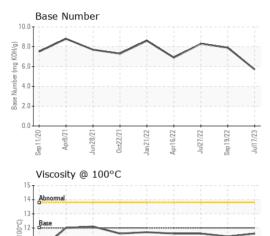
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sep2020 April021 Juni2021 Oction Juni2022 April022 Sep2022 Juli2023 Sep2022 Juli2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0088599	PCA0051843	PCA0051886
Sample Date		Client Info		17 Jul 2023	19 Sep 2022	27 Jul 2022
Machine Age	mls	Client Info		374230	279700	256900
Oil Age	mls	Client Info		34000	28700	28200
Oil Changed		Client Info		Changed	Changed	Changed
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	46	21	37
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	11	10	20
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	6	5	8
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	0	5
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	50	64	61	63
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	950	964	980	900
Calcium	ppm	ASTM D5185m	1050	1128	1097	1077
Phosphorus	ppm	ASTM D5185m	995	1036	1058	1025
Zinc	ppm	ASTM D5185m	1180	1247	1254	1255
Sulfur	ppm	ASTM D5185m	2600	2669	2991	2748
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	6
Sodium	ppm	ASTM D5185m		6	2	2
Potassium	ppm	ASTM D5185m	>20	9	4	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	11.4	10.2	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	22.6	23.2
FLUID DEGRADATION method limit/base current history1 history2						
0 11 11						
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.3	18.8	18.8
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	21.3 5.7	18.8 7.9	18.8 8.3

Contact/Location: FRANK DIETZ - MIDFAR



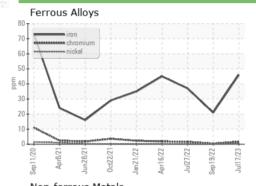
OIL ANALYSIS REPORT

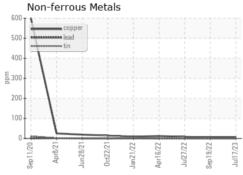


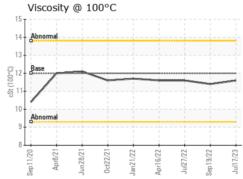
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

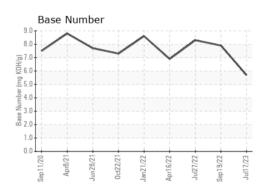
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.6	11.4	11.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10607676 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0088599 : 05927729

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received Diagnosed Diagnostician : Wes Davis

: 17 Aug 2023 : 18 Aug 2023

2169 MUSTANG DR MOUNDS VIEW, MN

> Contact: FRANK DIETZ frank.dietz@mmeinc.com T: (763)225-6382

MIDWEST MOTOR EXPRESS

* - 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

F: x: