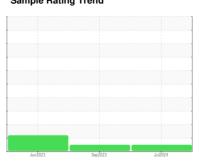


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

WESTERN STAR 153

Diesel Engine

PETRO CANADA DURON SHP 10W30 (12 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

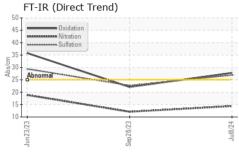
Fluid Condition

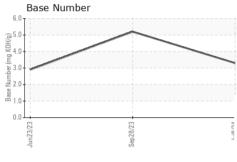
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

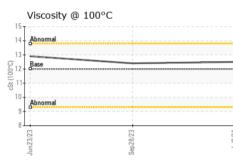
GAL) Juni223 Supi223 Juli224						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0117398	PCA0102600	PCA0100646
Sample Date		Client Info		08 Jul 2024	28 Sep 2023	23 Jun 2023
Machine Age	mls	Client Info		265633	167344	167344
Oil Age	mls	Client Info		50000	51643	57251
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	78	23	50
Chromium	ppm	ASTM D5185m	>20	2	1	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	20	5	10
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	9	7	13
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	3	2
Barium	ppm	ASTM D5185m	0	<1	0	1
Molybdenum	ppm	ASTM D5185m	50	66	61	60
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	950	814	917	900
Calcium	ppm	ASTM D5185m	1050	1115	1105	1124
Phosphorus	ppm	ASTM D5185m	995	934	970	941
Zinc	ppm	ASTM D5185m	1180	979	1259	1236
Sulfur	ppm	ASTM D5185m	2600	2219	2764	2437
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	5	9
Sodium	ppm	ASTM D5185m		5	0	4
Potassium	ppm	ASTM D5185m	>20	22	12	22
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.5	0.9
Nitration	Abs/cm	*ASTM D7624	>20	14.4	12.1	18.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.9	22.7	29.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.8	22.1	35.8
Base Number (BN)	mg KOH/g	ASTM D2896		3.3	5.2	<u>^</u> 2.9



OIL ANALYSIS REPORT



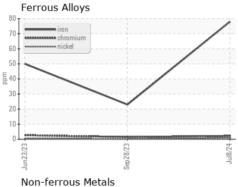


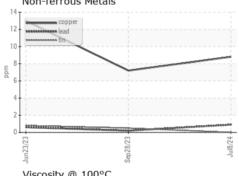


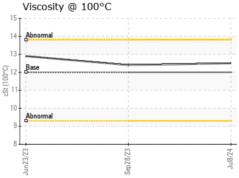
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

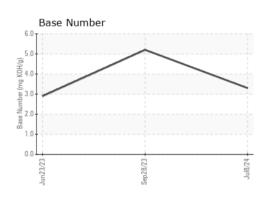
FLUID PROPI	EHILO	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	12.00	12.5	12.4	12.9

GRAPHS













Certificate 12367

Laboratory Sample No.

: PCA0117398 Lab Number : 06240015 Unique Number : 11128849 Test Package : FLEET

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

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

: 18 Jul 2024 **Tested** : 18 Jul 2024 Diagnosed : 19 Jul 2024 - Don Baldridge

9349 China Grove Church Road Pineville, NC

US 28134 Contact: Vlad Melnichuk shop@migway.com

A Truck Repair

T: (980)255-3200 * - 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)

Report Id: ATRPIN [WUSCAR] 06240015 (Generated: 07/21/2024 10:55:58) Rev: 1

Submitted By: Vlad Melnichuk