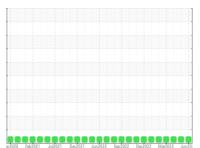


OIL ANALYSIS REPORT

Sample Rating Trend









Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 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

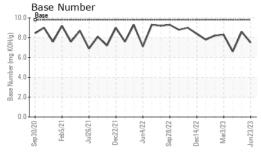
Fluid Condition

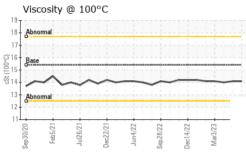
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0098090	PCA0098086	PCA009532
Sample Date		Client Info		23 Jun 2023	11 May 2023	06 Apr 2023
Machine Age	hrs	Client Info		10765	10468	10157
Oil Age	hrs	Client Info		297	311	301
Oil Changed	1115	Client Info		Not Changd	Not Changd	Not Changd
Sample Status		Ciletit IIIIO		NORMAL	NORMAL	NORMAL
<u>'</u>				NONWAL		
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>120	9	8	8
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	4	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	0	2	2
Lead	ppm	ASTM D5185m	>40	0	2	0
Copper	ppm	ASTM D5185m		1	5	2
Tin	ppm	ASTM D5185m	>15	0	1	0
Vanadium	ppm	ASTM D5185m	710	0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	17	0
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	61	55
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m	1010	883	1010	932
Calcium				003	1010	302
Calcium		AQTM D5185m	1070	071	11/12	1013
Phoenhorue	ppm	ASTM D5185m	1070	971 858	1143	1013
Phosphorus	ppm	ASTM D5185m	1150	858	977	934
Phosphorus Zinc Sulfur						
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060	858 1101 3051	977 1304 3710	934 1210 3193
Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	1150 1270 2060 limit/base	858 1101 3051 current	977 1304 3710 history 1	934 1210 3193 history 2
Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1150 1270 2060	858 1101 3051 current	977 1304 3710 history 1	934 1210 3193 history 2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ITS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1150 1270 2060 limit/base >25	858 1101 3051 current 5	977 1304 3710 history 1 7	934 1210 3193 history 2 3 9
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060 limit/base >25 >20	858 1101 3051 current 5 10	977 1304 3710 history 1 7 7	934 1210 3193 history 2 3 9 <1
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ITS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	1150 1270 2060 limit/base >25 >20 limit/base	858 1101 3051 current 5 10 1	977 1304 3710 history 1 7 7 5 history 1	934 1210 3193 history 2 3 9 <1
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	1150 1270 2060 limit/base >25 >20 limit/base >4	858 1101 3051 current 5 10 1 current 0.5	977 1304 3710 history 1 7 7 5 history 1	934 1210 3193 history 2 3 9 <1 history 2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1150 1270 2060 limit/base >25 >20 limit/base >4 >20	858 1101 3051 current 5 10 1 current 0.5 7.9	977 1304 3710 history 1 7 7 5 history 1 0.2 6.5	934 1210 3193 history 2 3 9 <1 history 2 0.5 7.7
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ITS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1150 1270 2060 limit/base >25 >20 limit/base >4 >20 >30	858 1101 3051 current 5 10 1 current 0.5 7.9 20.3	977 1304 3710 history 1 7 7 5 history 1 0.2 6.5 19.0	934 1210 3193 history 2 3 9 <1 history 2 0.5 7.7 17.6
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRA	ppm ppm ppm ITS ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	1150 1270 2060 limit/base >25 >20 limit/base >4 >20 >30 limit/base	858 1101 3051 current 5 10 1 current 0.5 7.9 20.3 current	977 1304 3710 history 1 7 7 5 history 1 0.2 6.5 19.0 history 1	934 1210 3193 history 2 3 9 <1 history 2 0.5 7.7 17.6
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ITS ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1150 1270 2060 limit/base >25 >20 limit/base >4 >20 >30 limit/base >25	858 1101 3051 current 5 10 1 current 0.5 7.9 20.3	977 1304 3710 history 1 7 7 5 history 1 0.2 6.5 19.0	934 1210 3193 history 2 3 9 <1 history 2 0.5 7.7



OIL ANALYSIS REPORT

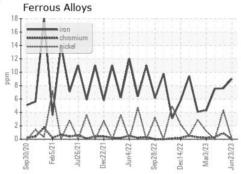


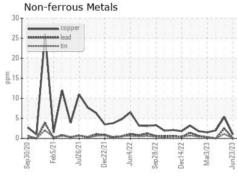


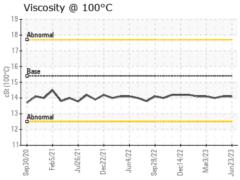
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

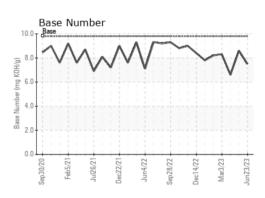
FLUID PROPE	RTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.1	14.0

GRAPHS













Laboratory

Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0098090 : 05889567 : 10540050

Received Diagnosed

: 03 Jul 2023 : 05 Jul 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

Test Package : FLEET Certificate L2367 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)

Report Id: ORIBET [WUSCAR] 05889567 (Generated: 07/05/2023 19:22:23) Rev: 1

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