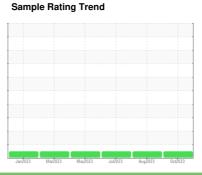


OIL ANALYSIS REPORT

(50947Z) Walgreens - Tractor [Walgreens - Tractor] 136A63283

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

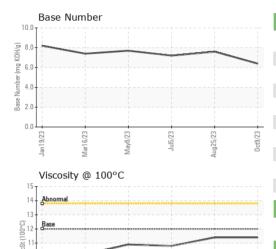
Fluid Condition

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103785	PCA0103799	PCA0100230
Sample Date		Client Info		09 Oct 2023	25 Aug 2023	05 Jul 2023
Machine Age	mls	Client Info		178129	152759	119693
Oil Age	mls	Client Info		58436	33066	55342
Oil Changed		Client Info		Changed	Not Changd	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	27	23	39
Chromium	ppm	ASTM D5185m	>5	3	2	3
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>30	23	22	46
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	41	45	66
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 3	history1 2	history2 3
	ppm					
Boron	• • •	ASTM D5185m	2	3	2	3
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2	3 0	2	3
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	3 0 64	2 0 72	3 0 61
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	3 0 64 1	2 0 72 <1	3 0 61 2
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	3 0 64 1 978	2 0 72 <1 1069	3 0 61 2 846
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	3 0 64 1 978 1180	2 0 72 <1 1069 1200	3 0 61 2 846 1316
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	3 0 64 1 978 1180 845	2 0 72 <1 1069 1200 1058	3 0 61 2 846 1316 893
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180	3 0 64 1 978 1180 845 1255	2 0 72 <1 1069 1200 1058 1300	3 0 61 2 846 1316 893 1159
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	3 0 64 1 978 1180 845 1255 2239	2 0 72 <1 1069 1200 1058 1300 3166	3 0 61 2 846 1316 893 1159 2311
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	3 0 64 1 978 1180 845 1255 2239 current	2 0 72 <1 1069 1200 1058 1300 3166 history1	3 0 61 2 846 1316 893 1159 2311 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	3 0 64 1 978 1180 845 1255 2239 current	2 0 72 <1 1069 1200 1058 1300 3166 history1	3 0 61 2 846 1316 893 1159 2311 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	3 0 64 1 978 1180 845 1255 2239 current 8	2 0 72 <1 1069 1200 1058 1300 3166 history1 6 3	3 0 61 2 846 1316 893 1159 2311 history2 6 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20	3 0 64 1 978 1180 845 1255 2239 current 8 3	2 0 72 <1 1069 1200 1058 1300 3166 history1 6 3	3 0 61 2 846 1316 893 1159 2311 history2 6 0 110
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20	3 0 64 1 978 1180 845 1255 2239 current 8 3 54	2 0 72 <1 1069 1200 1058 1300 3166 history1 6 3 57	3 0 61 2 846 1316 893 1159 2311 history2 6 0 110
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m method *ASTM D5185m *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20	3 0 64 1 978 1180 845 1255 2239 current 8 3 54 current	2 0 72 <1 1069 1200 1058 1300 3166 history1 6 3 57	3 0 61 2 846 1316 893 1159 2311 history2 6 0 110 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7614	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20 limit/base	3 0 64 1 978 1180 845 1255 2239 current 8 3 54 current 0.7	2 0 72 <1 1069 1200 1058 1300 3166 history1 6 3 57 history1 0.5 7.8	3 0 61 2 846 1316 893 1159 2311 history2 6 0 110 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m Method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7614	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20 limit/base >3 >20 >3	3 0 64 1 978 1180 845 1255 2239 current 8 3 54 current 0.7 9.5 21.6	2 0 72 <1 1069 1200 1058 1300 3166 history1 6 3 57 history1 0.5 7.8 19.6	3 0 61 2 846 1316 893 1159 2311 history2 6 0 110 history2 0.7 10.0 22.3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm	ASTM D5185m Method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7415 Method	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20 limit/base >3 >20 >3 limit/base	3 0 64 1 978 1180 845 1255 2239 current 8 3 54 current 0.7 9.5 21.6	2 0 72 <1 1069 1200 1058 1300 3166 history1 6 3 57 history1 0.5 7.8 19.6 history1	3 0 61 2 846 1316 893 1159 2311 history2 6 0 110 history2 0.7 10.0 22.3



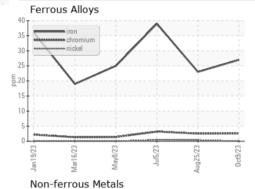
OIL ANALYSIS REPORT

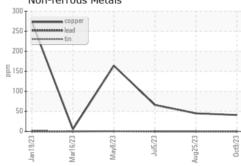


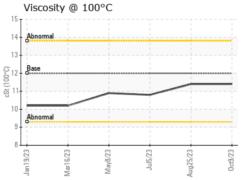
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

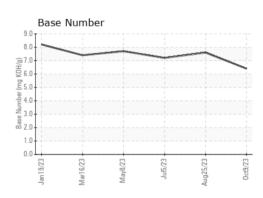
FLUID PROP	EHILO	method			riistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	12.00	11.4	11.4	10.8

GRAPHS













Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0103785 : 05979327 : 10696622

Received Diagnosed

: 16 Oct 2023 : 17 Oct 2023 Diagnostician : Wes Davis

Transervice - Shop 1364 - Berkeley-Mt. Vernon 5100 Lake Terrace NE Mt. Vernon, IL

US 62864 Contact: Erien White ewhite@transervice.com

T: (618)244-8726 F: (618)244-8791

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)