

OIL ANALYSIS REPORT

Walgreens - Tractor [Walgreens - Tractor] 136A6 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GA

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

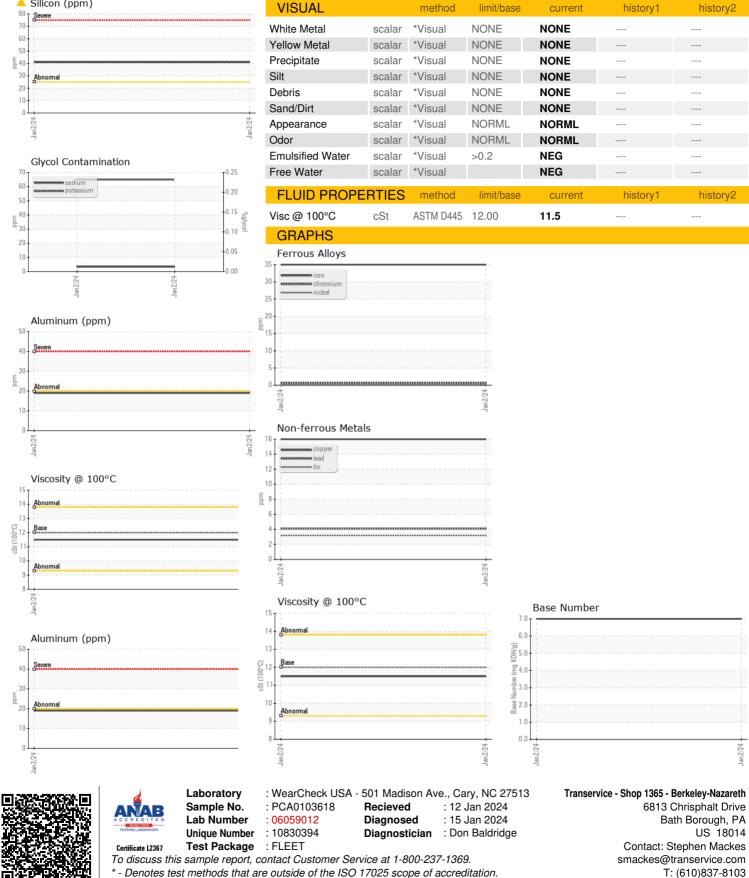
Fluid Condition

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

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GAL)				Jan2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103618		
Sample Date		Client Info		02 Jan 2024		
Machine Age	mls	Client Info		26701		
Oil Age	mls	Client Info		26701		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	35		
Chromium Nickel	ppm	ASTM D5185m ASTM D5185m	>20 >4	<1 0		
Titanium	ppm	ASTM D5185m	>4	0		
Silver	ppm ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	19		
Lead	ppm	ASTM D5185m	>40	4		
Copper	ppm	ASTM D5185m	>330	16		
Tin	ppm	ASTM D5185m	>15	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	48		
Barium	ppm	ASTM D5185m	0	4		
Molybdenum	ppm	ASTM D5185m	50	63		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	950	471		
Calcium	ppm	ASTM D5185m	1050	1806		
Phosphorus	ppm	ASTM D5185m	995	1032		
Zinc	ppm	ASTM D5185m	1180	1318		
Sulfur	ppm	ASTM D5185m	2600	3324		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4 1		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	65		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	8.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8		
FLUID DEGRAI		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4		
Base Number (BN)	mg KOH/g	ASTM D7414	~	7.0		
	ing itoring	NOTINI DE000		1.0		

Sample Rating Trend

DIRT



OIL ANALYSIS REPORT

* - 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)

OIL

Silicon (ppm)

DIAGNOSTICS

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