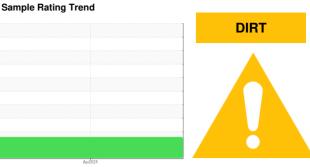


OIL ANALYSIS REPORT



Machine Id

438349

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- G

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

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.

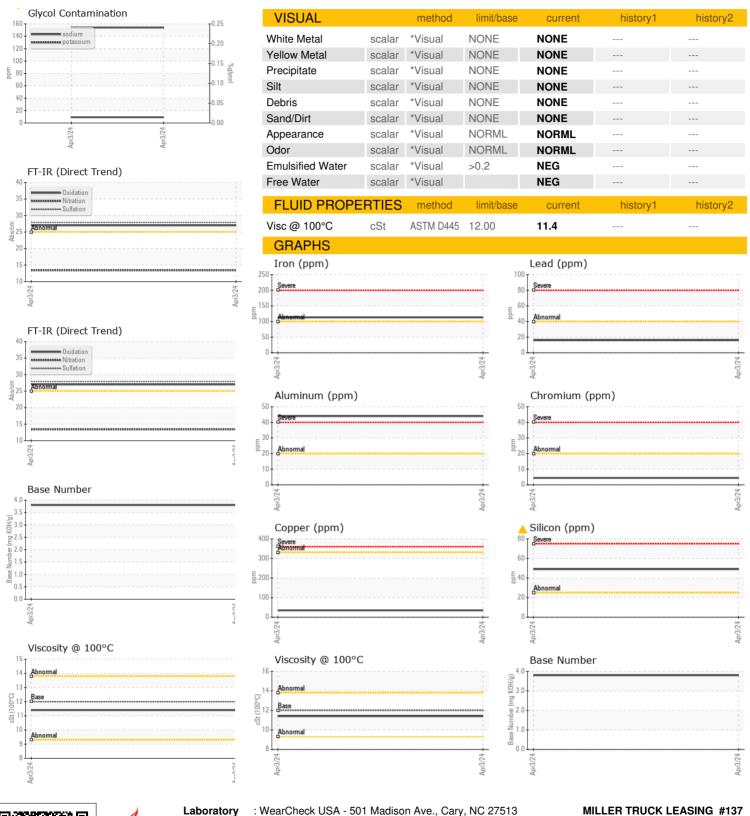
Fluid Condition

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

GAL)		<u>. </u>		Apr2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112745		
Sample Date		Client Info		03 Apr 2024		
Machine Age	mls	Client Info		34191		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel	_	WC Method	>5	<1.0		
Water		WC Method		NEG		
Glycol		WC Method	70.2	NEG		
	0		11 11 11		1111	1
WEAR METAL	_5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	113		
Chromium	ppm	ASTM D5185m	>20	4		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	44		
Lead	ppm	ASTM D5185m	>40	16		
Copper	ppm	ASTM D5185m	>330	35		
Tin	ppm	ASTM D5185m	>15	7		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	34		
Barium	ppm	ASTM D5185m	0	7		
Molybdenum	ppm	ASTM D5185m	50	12		
Manganese	ppm	ASTM D5185m	0	8		
Magnesium	ppm	ASTM D5185m	950	770		
Calcium	ppm	ASTM D5185m	1050	1316		
Phosphorus	ppm	ASTM D5185m	995	720		
Zinc	ppm	ASTM D5185m	1180	841		
Sulfur	ppm	ASTM D5185m	2600	3105		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	49		
Sodium	ppm	ASTM D5185m		9		
Potassium	ppm	ASTM D5185m	>20	154		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	13.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.9		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.0		
Base Number (BN)	mg KOH/g			3.8		
Dago Hamber (DIV)	ing Norly	AOTHI DE000		0.0		



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06155740

: PCA0112745 Unique Number : 10991163

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024 **Tested**

: 23 Apr 2024 Diagnosed : 24 Apr 2024 - Don Baldridge Test Package : MOB 1 (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Contact: Robert Beckhusen rbeckhusen@millertransgroup.com T: (845)779-1064

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

361 ROUTE 312

BREWSTER, NY

US 10509