

OIL ANALYSIS REPORT





Component

Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (--- GAL)

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

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

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 oil.

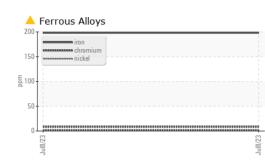
Fluid Condition

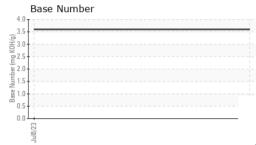
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

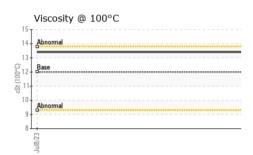
AL)				Jul2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100777		
Sample Date		Client Info		08 Jul 2023		
Machine Age	mls	Client Info		74014		
Dil Age	mls	Client Info		74014		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAI	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	1 98		
Chromium	ppm	ASTM D5185m	>20	8		
Nickel	ppm	ASTM D5185m	>4	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	53		
Lead	ppm	ASTM D5185m	>40	3		
Copper	ppm	ASTM D5185m	>330	242		
Tin	ppm	ASTM D5185m	>15	4		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	21		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	48		
Manganese	ppm	ASTM D5185m	0	5		
Magnesium	ppm	ASTM D5185m	950	588		
Calcium	ppm	ASTM D5185m	1050	2082		
Phosphorus	ppm	ASTM D5185m	995	863		
Zinc	ppm	ASTM D5185m	1180	1092		
Sulfur	ppm	ASTM D5185m	2600	2432		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	150		
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	*ASTM D7844	limit/base >3	current 1.9	history1	history2
	% Abs/cm					
Soot %		*ASTM D7844	>3	1.9		
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20	1.9 21.8		
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30 limit/base	1.9 21.8 33.5		

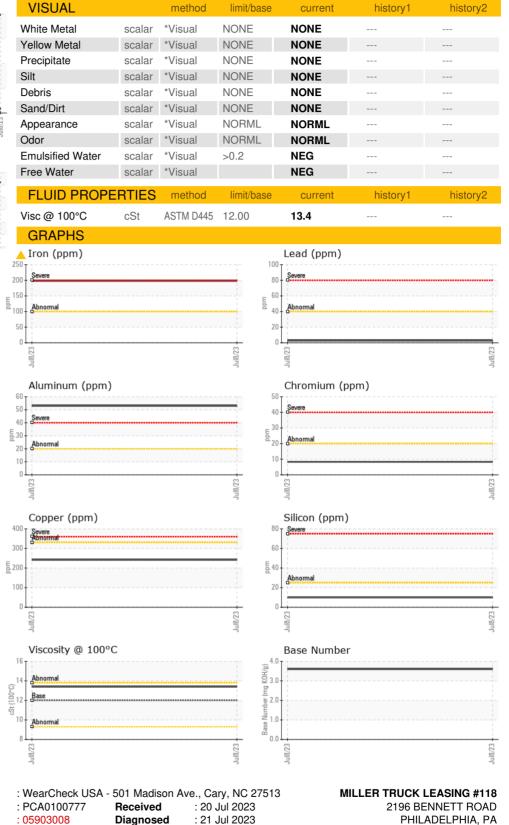


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Diagnostician : Don Baldridge Unique Number : 10564364 Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rviter@millertransgroup.com * - Denotes test methods that 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)

Laboratory

Sample No.

Lab Number

Contact/Location: ROSTY VITER - MILPHINE

US 19116

Contact: ROSTY VITER

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