

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 507399

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (----

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

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 oil.

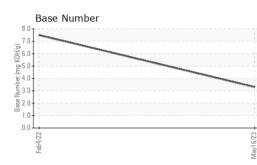
Fluid Condition

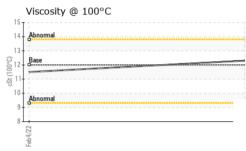
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

TS)			Feb 2022	May2023		
SAMPLE INFORM	/ ATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0097776	PCA0055157	
Sample Date		Client Info		16 May 2023	04 Feb 2022	
Machine Age	mls	Client Info		173845	88151	
Oil Age	mls	Client Info		68134	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	35	22	
Chromium	ppm	ASTM D5185m	>20	3	4	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	21	<u> </u>	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	11	24	
Tin	ppm	ASTM D5185m	>15	<1	2	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	0	4	
Barium	ppm	ASTM D5185m	0	11	0	
Molybdenum	ppm	ASTM D5185m	50	55	59	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	950	560	980	
Calcium	ppm	ASTM D5185m	1050	694	1206	
Phosphorus	ppm	ASTM D5185m	995	596	988	
Zinc	ppm	ASTM D5185m	1180	792	1278	
Sulfur	ppm	ASTM D5185m	2600	1654	2505	
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	2	3	
Sodium	ppm	ASTM D5185m		2	2	
Potassium	ppm	ASTM D5185m	>20	41	9 0	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	1.4	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	17.6	9.2	
Nitration						
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.1	21.8	
	Abs/.1mm		>30 limit/base	30.1 current	21.8 history 1	 history 2
Sulfation	Abs/.1mm					

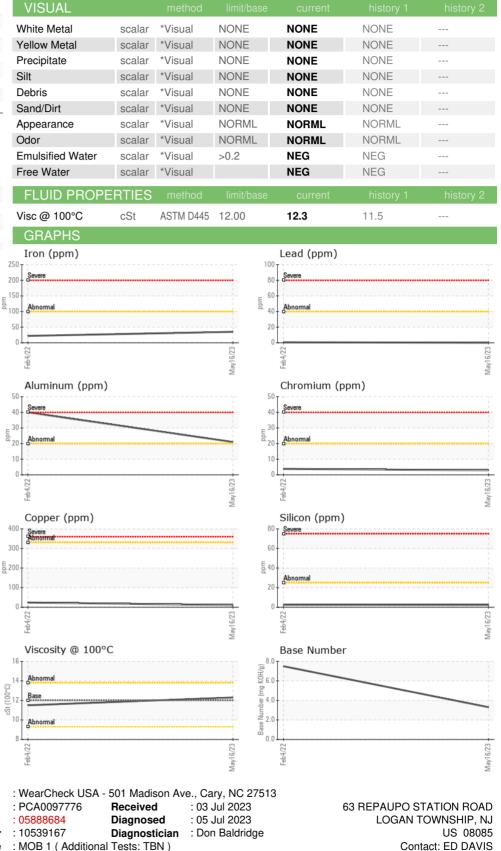


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ppm



Unique Number Test Package : MOB 1 (Additional Tests: TBN) 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)

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Laboratory

Sample No.

Lab Number

Contact/Location: ED DAVIS - MILLOG

edavis@millertransgroup.com

T: (856)214-3521

F: (856)214-3663