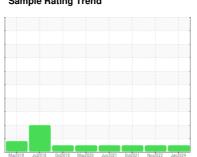


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



FREIGHTLINER 682868

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 C

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

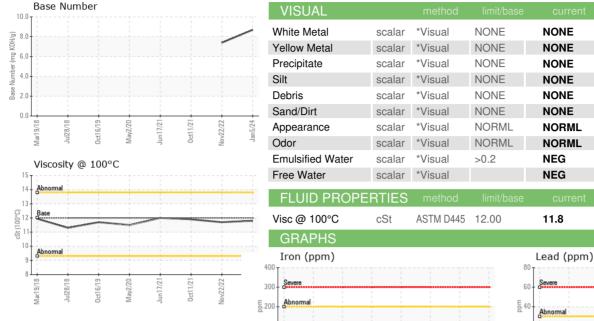
Fluid Condition

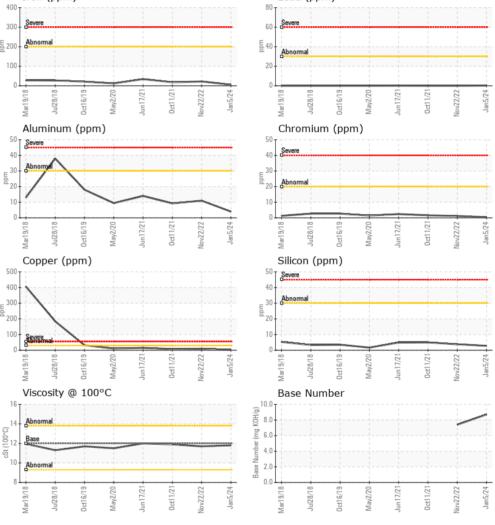
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		Mar2018 J	ul2018 Oct2019 May20	20 Jun 2021 Oct 2021 Nov 2022	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114546	PCA0073284	PCA0057150
Sample Date		Client Info		05 Jan 2024	22 Nov 2022	11 Oct 2021
Machine Age	mls	Client Info		11836	30505	18006
Oil Age	mls	Client Info		11836	30505	18006
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	5	22	18
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	6	24
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	11	9
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>30	2	10	8
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	8	6	18
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	58	55	43
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	850	774	786
Calcium	ppm	ASTM D5185m	1050			
	P P	ASTIVI DOTOSITI	1050	1194	1230	1475
Phosphorus	ppm	ASTM D5185m	995	1194 1067	1230 951	1475 946
Phosphorus Zinc						
	ppm	ASTM D5185m	995 1180	1067	951	946
Zinc	ppm ppm	ASTM D5185m ASTM D5185m	995 1180	1067 1253	951 1163	946 1131
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	995 1180 2600	1067 1253 3219	951 1163 3209	946 1131 4374
Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	995 1180 2600 limit/base	1067 1253 3219 current	951 1163 3209 history1	946 1131 4374 history2
Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	995 1180 2600 limit/base >30	1067 1253 3219 current	951 1163 3209 history1	946 1131 4374 history2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	995 1180 2600 limit/base >30	1067 1253 3219 current 3	951 1163 3209 history1 4	946 1131 4374 history2 5 3
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm TS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	995 1180 2600 limit/base >30 >20	1067 1253 3219 current 3 0	951 1163 3209 history1 4 0 7	946 1131 4374 history2 5 3 14
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	995 1180 2600 limit/base >30 >20 limit/base	1067 1253 3219 current 3 0 2	951 1163 3209 history1 4 0 7 history1	946 1131 4374 history2 5 3 14 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	995 1180 2600 limit/base >30 >20 limit/base >3	1067 1253 3219 current 3 0 2 current 0.3	951 1163 3209 history1 4 0 7 history1 1.1	946 1131 4374 history2 5 3 14 history2 0.9
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm TS ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624	995 1180 2600 limit/base >30 >20 limit/base >3 >20	1067 1253 3219 current 3 0 2 current 0.3 6.5	951 1163 3209 history1 4 0 7 history1 1.1 10.2	946 1131 4374 history2 5 3 14 history2 0.9 9.5
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm TS ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	995 1180 2600 limit/base >30 >20 limit/base >3 >20 >3 >20 >3 >3 >3 >3 >3 >3 >3 >3 >3 >3 >3 >3 >3	1067 1253 3219 current 3 0 2 current 0.3 6.5 18.0	951 1163 3209 history1 4 0 7 history1 1.1 10.2 23.7	946 1131 4374 history2 5 3 14 history2 0.9 9.5 21.4



OIL ANALYSIS REPORT









Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 06060903 : 10832285

: PCA0114546

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 17 Jan 2024 : Wes Davis Diagnostician

Test Package : MOB 1 (Additional Tests: TBN)

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.

MILLER TRUCK LEASING #118

2196 BENNETT ROAD PHILADELPHIA, PA US 19116

Contact: ROSTY VITER rviter@millertransgroup.com T: (215)552-9832

Contact/Location: ROSTY VITER - MILPHINE

F: (215)552-9892

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

11.9

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

11.7

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