

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

FREIGHTLINER 9

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

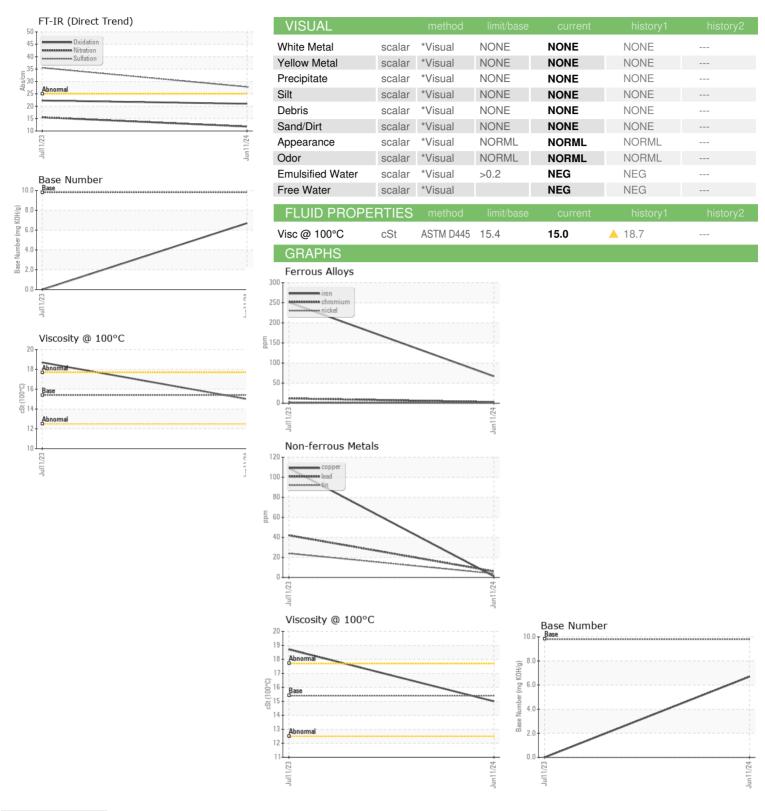
Fluid Condition

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

LTR)			Jul2023	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0115334	PCA0100675	
Sample Date		Client Info		11 Jun 2024	11 Jul 2023	
Machine Age	mls	Client Info		707299	584500	
Oil Age	mls	Client Info		25000	27564	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	SEVERE	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	67	<u>\$\text{251}\$</u>	
Chromium	ppm	ASTM D5185m	>5	3	<u>12</u>	
Nickel	ppm	ASTM D5185m	>2	<1	3	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	4	
Lead	ppm	ASTM D5185m	>30	6	<u>42</u>	
Copper	ppm	ASTM D5185m	>150	1	109	
Tin	ppm	ASTM D5185m	>5	4	<u>4</u> 24	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	106	14	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	100	64	
Manganese	ppm	ASTM D5185m	0	1	2	
Magnesium	ppm	ASTM D5185m	1010	640	725	
Calcium	ppm	ASTM D5185m	1070	1462	1283	
Phosphorus	ppm	ASTM D5185m	1150	987	946	
Zinc	ppm	ASTM D5185m	1270	1063	1189	
Sulfur	ppm	ASTM D5185m	2060	2904	2628	
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	△ 34	
Sodium	ppm	ASTM D5185m		4	0	
Potassium	ppm	ASTM D5185m	>20	2	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.6	▲ 6.3	
Nitration	Abs/cm	*ASTM D7624	>20	11.8	15.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.8	35.5	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.0	22.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	▲ 0.0	



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Certificate 12367

Laboratory Sample No.

Test Package : FLEET

Lab Number : 06240006 Unique Number : 11128840

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0115334

Received : 18 Jul 2024 **Tested** : 18 Jul 2024 Diagnosed

: 19 Jul 2024 - Don Baldridge

A Truck Repair 9349 China Grove Church Road Pineville, NC

US 28134 Contact: Vlad Melnichuk shop@migway.com T: (980)255-3200

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)