

OIL ANALYSIS REPORT

Sample Rating Trend SOOT

Machine Id

FREIGHTLINER 31

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 L

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted.

Wear

All component wear rates are normal.

Contamination

Light concentration of carbon/soot present in the oil.

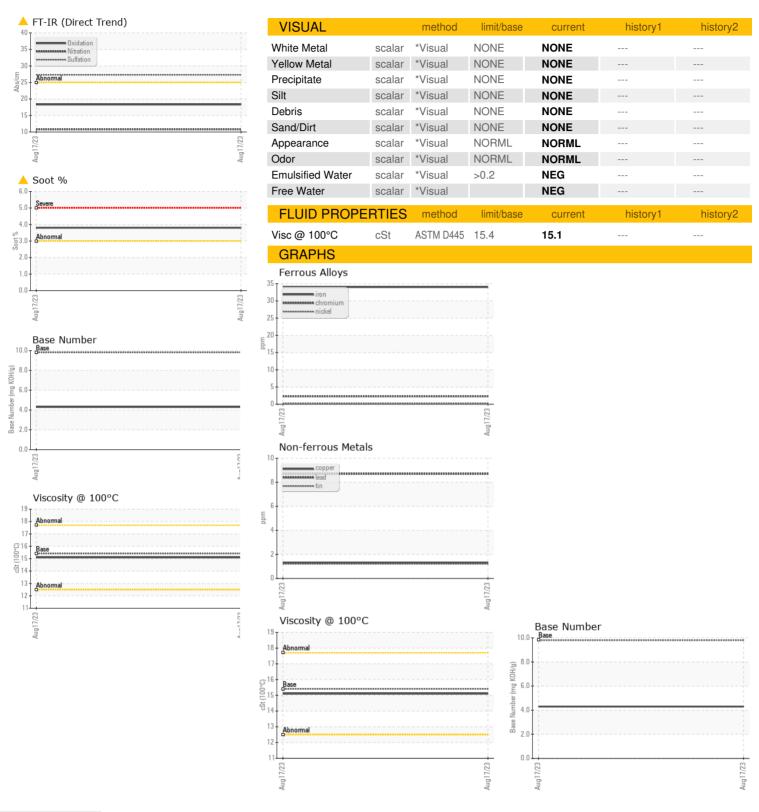
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

.TR)				Aug2023		
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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102576		
Sample Date		Client Info		17 Aug 2023		
Machine Age	mls	Client Info		557846		
Oil Age	mls	Client Info		24076		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	34		
Chromium	ppm	ASTM D5185m	>5	2		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>30	1		
Lead	ppm	ASTM D5185m	>30	9		
Copper	ppm	ASTM D5185m	>150	1		
Γin	ppm	ASTM D5185m	>5	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	55		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	872		
Calcium	ppm	ASTM D5185m	1070	1094		
Phosphorus	ppm	ASTM D5185m	1150	914		
Zinc	ppm	ASTM D5185m	1270	1165		
Sulfur	ppm	ASTM D5185m	2060	3118		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	6		
Fuel	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	▲ 3.8		
Nitration	Abs/cm	*ASTM D7624		10.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3		
Base Number (BN)	mg KOH/g	ASTM D2896		4.3		
Dase Mulliber (DIN)	iliy NOD/ÿ	VO 1 IAI D5030	3.0	4.3		



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Sample No.

Lab Number : 06188657

: PCA0102576 Unique Number : 11045409

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

: 23 May 2024 : 24 May 2024 Diagnosed

: 24 May 2024 - Wes Davis

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

9349 China Grove Church Road

Certificate 12367

Test Package : FLEET (Additional Tests: FuelDilution) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) A Truck Repair