

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Oil and filter change at the time of sampling has been noted. We recommend an early resample to

Cylinder, crank, or cam shaft wear is indicated.

There is no indication of any contamination in the

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.

DIAGNOSIS Recommendation

monitor this condition.

Contamination

Fluid Condition

A Wear

oil.

Area (AT645T) Supermarket - Tractor **MACK 107A**

Diesel Engine Fluid

PETRO CANADA D

327						
ON SHP 10W30 (1		Au	a ² 023	Dec2023 Jun20	24	
SAMPLE INFOR	MATION		limit/base		history1	history
Sample Number		Client Info		PCA0124716	PCA0111512	PCA01004
Sample Date		Client Info		21 Jun 2024	29 Dec 2023	09 Aug 202
Machine Age	mls	Client Info		341432	320088	299020
Oil Age	mls	Client Info Client Info		21344	21068	14788
Oil Changed Sample Status		Client mio		Changed ABNORMAL	Changed NORMAL	Changed NORMAL
					-	
CONTAMINAT	ION	method	limit/base		history1	history
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 METAL	S	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>120	<u> </u>	78	65
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	4	6
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m		10	6	5
Lead	ppm	ASTM D5185m	>40	2	2	3
Copper	ppm	ASTM D5185m		60	24	19
Tin	ppm	ASTM D5185m	>15	1	1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	2	4	7	2
Barium	ppm	ASTM D5185m	0	6	0	0
Molybdenum	ppm	ASTM D5185m	50	65	61	61
Manganese	ppm	ASTM D5185m		6	2	2
Magnesium	ppm	ASTM D5185m	950	901	931	983
Calcium	ppm	ASTM D5185m		1095	1151	1202
Phosphorus	ppm	ASTM D5185m	995	1049	1067	1061
Zinc	ppm	ASTM D5185m		1204	1385	1382
Sulfur	ppm	ASTM D5185m	2600	2602	2930	3657
CONTAMINAN	ITS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	17	7	6
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	> 20	2	6	7
	ppm					
INFRA-RED	~ /	method	limit/base		history1	history
Soot %	%	*ASTM D7844		0.3	0.5	0.4
N Plane Alleria		-//SIN/11/62/	>20	8.3	8.1	8.4
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		19.9	20.5	20.2

Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896

16.4

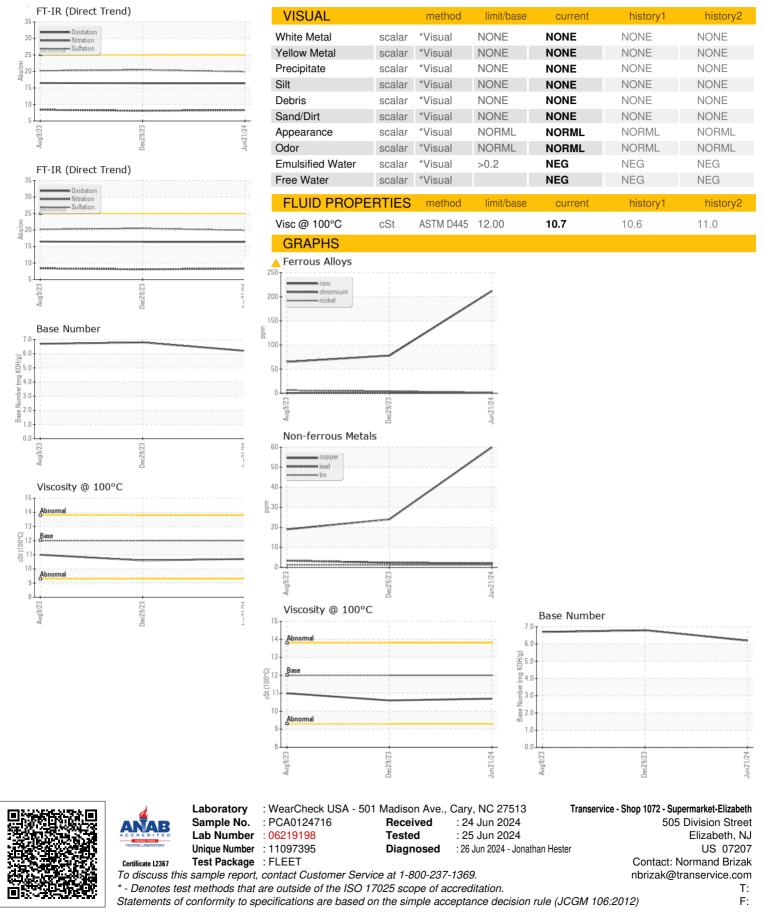
6.2

16.5

6.7

16.4

6.8



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DIAGNOSTICS

Submitted By: Normand Brizak

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