

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

JV TRANSPORTATION CONSULTANTS INC. Machine Id FREIGHTLINER 662836

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

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DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

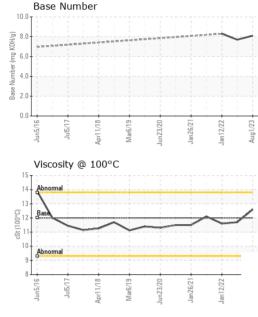
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

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ULTANTS INC.								
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AL)	Jun 2016	- Lucion 2	A-2010	Mar2019	Jun 2020	Jan 2021	1-2022	A202
-	JunZU16	Jul2017	AprZ018	MarZU19	Jun2020	Jan2021	Jan2022	Aug202
SAMPLE INFORMATION	method							

Sample Number		Client Info		PCA0103010	PCA0080735	PCA0065635
Sample Date		Client Info		01 Aug 2023	24 Sep 2022	12 Jan 2022
Machine Age	mls	Client Info		373267	366974	339340
Oil Age	mls	Client Info		0	0	50000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	14	17	30
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	0	2	7
Lead	ppm	ASTM D5185m	>30	<1	3	4
Copper	ppm	ASTM D5185m	>150	<1	0	1
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		mathad	limit/base	OLIVE OR	historyt	history2
ADDITIVES		method				THStOLY Z
Boron	ppm	ASTM D5185m	2	80	9	16
	ppm		2			· ·
Boron		ASTM D5185m	2	80	9	16
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2 0 50	80 0	9	16
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	80 0 65	9 0 74	16 0 64
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	80 0 65 <1	9 0 74 <1	16 0 64 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	80 0 65 <1 591	9 0 74 <1 858	16 0 64 <1 920
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	80 0 65 <1 591 1564	9 0 74 <1 858 1266	16 0 64 <1 920 1300
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	80 0 65 <1 591 1564 997	9 0 74 <1 858 1266 1016	16 0 64 <1 920 1300 1109
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180	80 0 65 <1 591 1564 997 1260	9 0 74 <1 858 1266 1016 1238	16 0 64 <1 920 1300 1109
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	80 0 65 <1 591 1564 997 1260 3853	9 0 74 <1 858 1266 1016 1238 3529	16 0 64 <1 920 1300 1109 1260 2750
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	80 0 65 <1 591 1564 997 1260 3853 current	9 0 74 <1 858 1266 1016 1238 3529 history1	16 0 64 <1 920 1300 1109 1260 2750
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	80 0 65 <1 591 1564 997 1260 3853 current 6	9 0 74 <1 858 1266 1016 1238 3529 history1	16 0 64 <1 920 1300 1109 1260 2750 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	80 0 65 <1 591 1564 997 1260 3853 current 6	9 0 74 <1 858 1266 1016 1238 3529 history1 2	16 0 64 <1 920 1300 1109 1260 2750 history2 4
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20	80 0 65 <1 591 1564 997 1260 3853 current 6 2 5	9 0 74 <1 858 1266 1016 1238 3529 history1 2 0 17	16 0 64 <1 920 1300 1109 1260 2750 history2 4 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20	80 0 65 <1 591 1564 997 1260 3853 current 6 2 5	9 0 74 <1 858 1266 1016 1238 3529 history1 2 0 17 history1	16 0 64 <1 920 1300 1109 1260 2750 history2 4 1 11 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >20 	80 0 65 <1 591 1564 997 1260 3853 current 6 2 5	9 0 74 <1 858 1266 1016 1238 3529 history1 2 0 17 history1 0.5	16 0 64 <1 920 1300 1109 1260 2750 history2 4 1 11 history2 0.5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D76145	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20 limit/base	80 0 65 <1 591 1564 997 1260 3853 current 6 2 5 current 0.2 5.9	9 0 74 <1 858 1266 1016 1238 3529 history1 2 0 17 history1 0.5 10.6	16 0 64 <1 920 1300 1109 1260 2750 history2 4 1 11 history2 0.5 10.9
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D76145	2 0 50 0 950 1050 995 1180 2600 limit/base >20 >20 limit/base >3 >20 >3	80 0 65 <1 591 1564 997 1260 3853 current 6 2 5 current 0.2 5.9 17.7	9 0 74 <1 858 1266 1016 1238 3529 history1 2 0 17 history1 0.5 10.6 23.5	16 0 64 <1 920 1300 1109 1260 2750 history2 4 1 11 history2 0.5 10.9 23.0



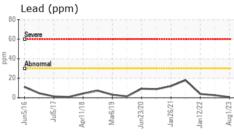
OIL ANALYSIS REPORT

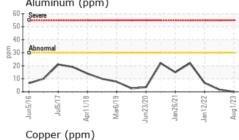


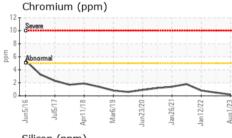
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
	DTIES	mothod	limit/base	current	history1	history?

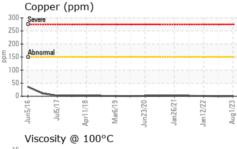
Visc @ 100°C	cSt	ASTM D445	12.00	12.6	11.7	11.6
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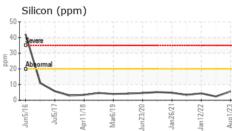
Iron	n (ppn	1)					
Seve	re						
100 - Abno	rmal						
50						/	
0	\leq		_				
Jun5/16	Jul5/17	Apr11/18	Mar6/19	Jun23/20	Jan26/21	Jan 12/22	Aug1/23
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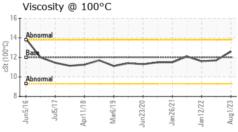


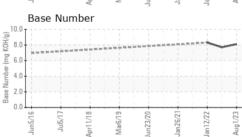














Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 10605716

: PCA0103010 : 05925769

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

: 16 Aug 2023 : 17 Aug 2023 Diagnostician : Don Baldridge

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

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