

OIL ANALYSIS REPORT

FLEET Machine Id VOLVO VN 7992 (S/N 4V4MC9EG2EN173844) Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (40 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

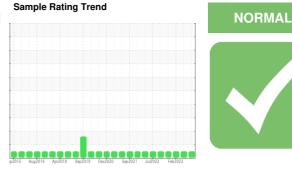
All component wear rates are normal.

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 suitable for further service.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102860	PCA0093686	PCA0085270
Sample Date		Client Info		14 Sep 2023	04 May 2023	16 Feb 2023
Machine Age	mls	Client Info		764080	733822	719160
Oil Age	mls	Client Info		30258	30924	31730
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIC	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	35	34	17
Chromium	ppm	ASTM D5185m	>20	1	2	0
Nickel	ppm	ASTM D5185m	>2	<1	2	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	10	4
Lead	ppm	ASTM D5185m	>40	0	1	<1
Copper	ppm	ASTM D5185m	>330	2	2	4
Tin F	ppm	ASTM D5185m	>15	<1	2	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	59	56	57
Manganese	nnm	ASTM D5185m	0	-1	~1	-1

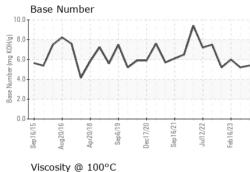
Boron	ppm	ASTM D5185m	2	<1	1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	59	56	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	980	953	905
Calcium	ppm	ASTM D5185m	1050	1115	1079	1107
Phosphorus	ppm	ASTM D5185m	995	1004	1015	940
Zinc	ppm	ASTM D5185m	1180	1267	1302	1197
Sulfur	ppm	ASTM D5185m	2600	3154	3152	3202
CONTAMINANTS method		limit/base	current	history1	history2	

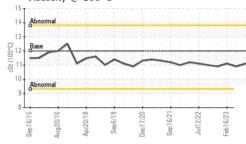
Silicon	ppm	ASTM D5185m	>25	6	7	5
Sodium	ppm	ASTM D5185m		15	16	12
Potassium	ppm	ASTM D5185m	>20	3	3	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.6	11.1	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.4	21.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	19.3	18.4
Base Number (BN)	ma KOH/a	ASTM D2896		5.4	5.2	6.0

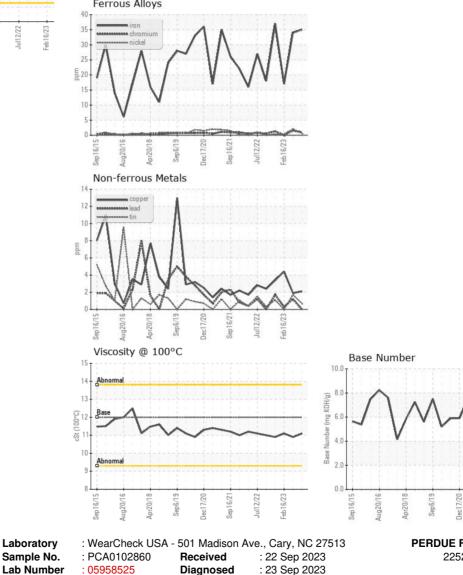


OIL ANALYSIS REPORT

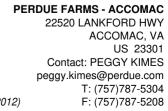




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	10.9	11.1
GRAPHS						
Ferrous Allovs						



Diagnostician : Wes Davis



Sep16/21.



 Certificate 12367
 Test Package
 : FLEET

 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)

Unique Number : 10659738

Page 2 of 2

Feb 16/23