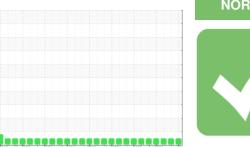


OIL ANALYSIS REPORT

Sample Rating Trend







VOLVO L150 L150H

Component

Diesel Engine

Fluid

PETRO CANADA DURON HP 15W40 (50 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

Fluid Condition

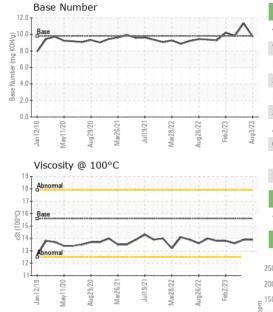
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

514 THE 15W 40 (50		in 2018 May 20	20 Aug2020 Mar2021	Jul2021 Mar2022 Aug2022 Feb.	2023 Aug20;	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0090555	PCA0090827	PCA0090604
Sample Date		Client Info		03 Aug 2023	20 May 2023	15 Apr 2023
Machine Age	hrs	Client Info		9941	9725	9479
Oil Age	hrs	Client Info		216	246	255
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	0	2	1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	4	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		64	60	52
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		964	936	845
Calcium	ppm	ASTM D5185m		1146	1093	918
Phosphorus	ppm	ASTM D5185m		1090	989	891
Zinc	ppm	ASTM D5185m		1278	1177	1093
Sulfur	ppm	ASTM D5185m		3332	3496	2986
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	2
Sodium	ppm	ASTM D5185m		1	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.2	5.6	4.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	17.7	15.9
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.4	12.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.72	11.34	9.82
, ,						



OIL ANALYSIS REPORT

GRAPHS



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

FLUID FNOF	EULIES	memod			HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.6	13.9	13.9	13.6

250	Iron (p	pm)							100 T	ead (¡	opm)						
200	Severe						111			Severe						111	
돌 150 100									60-								
									40 1	Abnormal	-						-
50	111111								20								
U	Jan12/18	Aug29/20	Mar26/21-	Jul19/21-	Mar28/22 -	Aug26/22	Feb2/23	Aug3/23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	May11/20	Aug29/20	Mar26/21-	Jul19/21-	Mar28/22	Aug26/22	Feb2/23	Aug3/23
	Alumin	um (p	pm)							Chrom	ium (p	pm)					
50 40	Course			TH			111		50 T	Severe	11111		TH	TTI		111	
E 30	Abnormal								_∈ 30 -								
E 20				+++		+	+++		E 20 - 6	Abnormal							
10									10								
0	Jan12/18	Aug29/20	Mar26/21	Jul19/21	Mar28/22 -	Aug26/22	Feb2/23	Aug3/23	0 12/18	May11/20	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23 -	Aug3/23
	_			η	Mar	Aug	관	Au		_		Ma	η	Mar	Aug	관	Au
400	Copper	(ppm	1)						80 T 2	Silicon Severe	(ppm)						
400	Severe	(ppm)						80	Silicon Severe	(ppm)						
300	Severemal	(ppm)						60 - E 40 -	Severe	(ppm)						
	SEVERnal -	(ppm							60 - E 40 -	Selicon Severe Abnormal	(ppm)						
300 E 200	SEVE Final								60 - E 40 - 20 - 20 - 20	Abnormal							
300 톱 200 100	SEVE Final		Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23	60 - E 40 -	Abnormal		Mar26/21	Jul19/21	Mar28/22	Jug26/22	Feb2/23+	Aug3/23
300 E 200 100	Viscosii	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23	80 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -	Abnormal 02/11/2W	(ppm)		Jul19/21	Mar28/22	Aug26/22	Feb2/23 -	Aug3/23
300	Viscosii Van 1/20	Aug29/20	Mar26/21	Jul19/21	Ma/28/22	Aug26/22	Feb 2/23	Aug3/23	80 F 60 F	Abnormal 02/11/2W	Aug29/20		Juli 9/21	Mar28/22	Aug26/22	Feb 2/23 +	Aug3/23
300 E 200 100 0	Viscosii Abnormal	Aug29/20	Mar26/21	Juli 9/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23	80 F 60 F	Abnormal 02/11/kW Base N	Aug29/20		Jul19/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23
300 E 200 100 0	8 Base	Aug29/20	Mar26/21	Jul19/21	Mar28/22	Aug26/22	Feb 2/23	Aug3/23	80 F 60 F	Abnormal 02/11/kW Base N	Aug29/20		Juli 9/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23
3000 Edd 2000 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Viscosil Abnormal	Aug29/20	Mar26/21	Juli 9/21	Mar28/22	Aug26/22	Feb2/23	Aug3/23	80 T B Ward Month (10) MOX MONTH (10	Abnormal 02/11/kW Base N	Aug29/20		Jul19/21	Ma28/22	Aug26/22	Feb2/23+	Aug3/23
300 Ed 200 100 0 20 18 ()00()1 13 14	Viscosil Abnormal	Aug29/20	Mar26/21	Juli 9/21	Mar28/22 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Aug26/72 Aug26/72	Feb2/23	Aug3/23 Aug3/23	80 T 6 60 + 40 + 40 + 40 + 40 + 40 + 40 + 40	Abnormal OZIII/eW N	Aug29/20		Jul19,21	Mar28/22	Aug26/22	Feb2/23	Aug3/23





Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10590713 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05918799

: PCA0090555

Received Diagnosed

: 08 Aug 2023 : 09 Aug 2023

Diagnostician : Wes Davis

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)

J F PRICE

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Submitted By: JOHN LANG

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