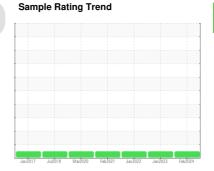


OIL ANALYSIS REPORT







VOLVO A40G LB-60 (S/N 340544) Component

Brake Cooling System Fluid

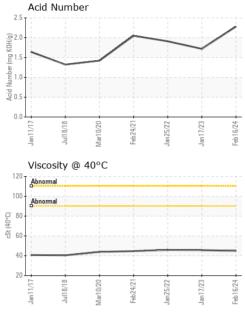
FLEETLINE MULTI TRAC HY/TRANS (60 GAL)

Sample Number Client Info PCA0110126 WC0721180 WC0569983 rear It component wear rates are normal. Client Info 15 feb 2024 17 Jan 2023 25 Jan 2022 Nachina Age hris Client Info 1590 1532 13801 12269 Normation hree is no indication of any contamination in the it. Internation NORMAL		·	,	Jan2017	Jul2018 Mar2020	Feb2021 Jan2022 Jan2023	Feb2024	
example at the next service interval to monitor. Verail Component wear rates are normal. Contamination nere is no indication of any contamination in the	DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Hear Machine Age hrs Client Info 15391 13801 12289 II component wear rates are normal. Oil Age hrs Client Info Ts90 1532 1362 Diate is no indication of any contamination in the Uid Condition Client Info Changed <	Recommendation	Sample Number		Client Info		PCA0110126	WC0721180	WC0569983
Diamoponent wear rates are normal. Oil Age Client Info 1590 1532 1362 Diamoponent wear rates are normal. Oil Anarged Client Info Changed Change	Resample at the next service interval to monitor.	Sample Date		Client Info		16 Feb 2024	17 Jan 2023	25 Jan 2022
Ontamination here is no indication of any contamination in the it. Oil Changed Sample Status Client Info Changed NORMAL Chang	lear	Machine Age	hrs	Client Info		15391	13801	12269
Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG Wearer With or port ASTM 05185m >20 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	ll component wear rates are normal.	Oil Age	hrs	Client Info		1590	1532	1362
Sample Status NORMAL NORMAL NORMAL NORMAL uic condition me AN level is acceptable for this fluid. The ondition of the oil is suitable for further service. CONTAMINATION method limbbase current history1 history2 Water WC Method >0.0.2 NEG NEG NEG Iron ppm ASTM05186m >5.0 4 6 8 Othoronium ppm ASTM05186m >5.0 4 6 8 Iron ppm ASTM05186m >5.0 4 6 10 Iron ppm ASTM05186m >5.0 4 4 10 Copper ppm <t< td=""><td>ontamination</td><td>Oil Changed</td><td></td><td>Client Info</td><td></td><td>Changed</td><td>Changed</td><td>Changed</td></t<>	ontamination	Oil Changed		Client Info		Changed	Changed	Changed
Uid Condition method initicase current history? history? Water WC Method >0.2 NEG NEG NEG Water ppm ASTM05185m >0 4 6 8 Chromium ppm ASTM05185m >0 <1	here is no indication of any contamination in the					NORMAL	NORMAL	
Water WC Method >0.2 NEG NEG NEG Indiation of the oil is suitable for further service. Water WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >0 4 6 8 Iron ppm ASTM D5185m >0 <1		CONTAMINAT	ION	method	limit/base	current	history1	history2
Inductor ppm ASTM D5185m >50 4 6 8 Chromium ppm ASTM D5185m >20 0 <1	ne AN level is acceptable for this fluid. The			WC Method	>0.2	NEG	NEG	NEG
Chromium ppm ASTM D5165m >20 0 <1 <1 Nickel ppm ASTM D5155m >10 <1	ondition of the oil is suitable for further service.	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel ppm ASTM D5185n >10 <1 <1 <1 0 Titanium ppm ASTM D5185n Q <1		Iron	ppm	ASTM D5185m	>50	4	6	8
Titanium ppm ASTM D5185m		Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Silver ppm ASTM D5185m 0 <1 3 Aluminum ppm ASTM D5185m >30 <1		Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Aluminum ppm ASTM D5165m >30 <1 <1 1 Lead ppm ASTM D5165m >50 <1		Titanium	ppm	ASTM D5185m		<1	<1	<1
Lead ppm ASTM D5185m >50 <1		Silver	ppm	ASTM D5185m		0	<1	3
Copper ppm ASTM D5185m >200 31 31 30 Tin ppm ASTM D5185m >20 <1		Aluminum	ppm	ASTM D5185m	>30	<1	<1	1
Tin ppm ASTM D5185m >20 <1		Lead	ppm	ASTM D5185m	>50	<1	2	1
Antimony ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m 0 0 0 2 Cadmium ppm ASTM D5185m 0 0 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 10 10 12 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 5 6 6 Magnesium ppm ASTM D5185m 74 84 82 Calcium ppm ASTM D5185m 1171 1174 1193 Zinc ppm ASTM D5185m 1258 1406 1261 Sulfur ppm ASTM D5185m 1171 1174 1193 Zinc ppm ASTM D5185m 1370 5052 3717 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m<>50 <td>Copper</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>200</td> <td>31</td> <td>31</td> <td>30</td>		Copper	ppm	ASTM D5185m	>200	31	31	30
VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m00<1		Tin	ppm	ASTM D5185m	>20	<1	<1	0
CadmiumppmASTM D5185m00<1ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m101012BariumppmASTM D5185m000MolybdenumppmASTM D5185m566ManganeseppmASTM D5185m<1		Antimony	ppm	ASTM D5185m	>5			0
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m101012BariumppmASTM D5185m000MolybdenumppmASTM D5185m566ManganeseppmASTM D5185m748482CalciumppmASTM D5185m748482CalciumppmASTM D5185m117111741193ZincppmASTM D5185m1125814061261SulfurppmASTM D5185m437050523717CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m2<1		Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 10 10 12 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 5 6 6 Manganese ppm ASTM D5185m 5 6 6 Manganese ppm ASTM D5185m 74 84 82 Calcium ppm ASTM D5185m 74 84 82 Calcium ppm ASTM D5185m 1171 1174 1193 Zinc ppm ASTM D5185m 1171 1174 1193 Zinc ppm ASTM D5185m 13370 5052 3717 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m<>50 4 4 4 Sodium ppm ASTM D5185m<>20 0 1 1 Potassium ppm ASTM D5185m<>20 0 1 0		Cadmium	ppm	ASTM D5185m		0	0	<1
BariumppmASTM D5185m000MolybdenumppmASTM D5185m566ManganeseppmASTM D5185m<1		ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m566ManganeseppmASTM D5185m<1		Boron	ppm	ASTM D5185m		10	10	12
ManganeseppmASTM D5185m<1<1<1MagnesiumppmASTM D5185m748482CalciumppmASTM D5185m278832333087PhosphorusppmASTM D5185m117111741193ZincppmASTM D5185m125814061261SulfurppmASTM D5185m437050523717CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50444SodiumppmASTM D5185m>20010FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2		Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 74 84 82 Calcium ppm ASTM D5185m 2788 3233 3087 Phosphorus ppm ASTM D5185m 1171 1174 1193 Zinc ppm ASTM D5185m 1258 1406 1261 Sulfur ppm ASTM D5185m 4370 5052 3717 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 4 4 4 Sodium ppm ASTM D5185m >20 0 1 0 FLUID DEGRADATION method limit/base current history1 history2		Molybdenum	ppm	ASTM D5185m		5	6	6
Calcium ppm ASTM D5185m 2788 3233 3087 Phosphorus ppm ASTM D5185m 1171 1174 1193 Zinc ppm ASTM D5185m 1258 1406 1261 Sulfur ppm ASTM D5185m 4370 5052 3717 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 4 4 4 Sodium ppm ASTM D5185m >20 0 1 0 FLUID DEGRADATION method limit/base current history1 history2		Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 1171 1174 1193 Zinc ppm ASTM D5185m 1258 1406 1261 Sulfur ppm ASTM D5185m 4370 5052 3717 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 4 4 4 Sodium ppm ASTM D5185m >20 Q 1171 1174 1193 FLUID DEGRADATION method limit/base current history1 history2		Magnesium	ppm	ASTM D5185m		74	84	82
ZincppmASTM D5185m125814061261SulfurppmASTM D5185m437050523717CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50444SodiumppmASTM D5185m>20441PotassiumppmASTM D5185m>20010FLUID DEGRADATION methodlimit/basecurrenthistory1history2		Calcium	ppm	ASTM D5185m		2788	3233	3087
SulfurppmASTM D5185m437050523717CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50444SodiumppmASTM D5185m>202<1		Phosphorus	ppm	ASTM D5185m		1171	1174	1193
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>50444SodiumppmASTM D5185m2<1		Zinc	ppm	ASTM D5185m		1258	1406	1261
SiliconppmASTM D5185m>50444SodiumppmASTM D5185mCurrent2<11PotassiumppmASTM D5185m>20010FLUID DEGRADATION methodlimit/basecurrenthistory1history2		Sulfur	ppm	ASTM D5185m		4370	5052	3717
SodiumppmASTM D5185m2<11PotassiumppmASTM D5185m>20010FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2		CONTAMINAN	ITS	method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20010FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2		Silicon	ppm	ASTM D5185m	>50	4	4	4
FLUID DEGRADATION method limit/base current history1 history2		Sodium	ppm	ASTM D5185m		2	<1	1
		Potassium	ppm	ASTM D5185m	>20	0	1	0
Acid Number (AN) mg KOH/g ASTM D8045 2.28 1.72 1.91		FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2
		Acid Number (AN)	mg KOH/a	ASTM D8045		2.28	1.72	1.91



OIL ANALYSIS REPORT

VISUAL



		: 10910262	Recei Teste Diagr	ived : 0 ⁻ ed : 04 nosed : 06 800-237-1365	I Mar 2024 I Mar 2024 Mar 2024 - Jona 9.		WE Contact: Ibstone61	STONE CORI PLEASANT S EYMOUTH, M/ US 02189 PAUL MOGAN 1@comcast.ne (781)331-5379
		Viscosity @ 40°C	Feb24/21	Jan 25,22	Feb 16/24	Acid Number	Mai10/20 Feb24/21	Jan 17/23
		600 Muture 0 0 0 0 0 0 0 0 0 0 0 0 0	Feb24/21	Jan25/22 Jan25/23	Feb16/24	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mari 10/20 + Feb 24/21 -	Jan 17/23 Fein 16/24
		Aluminum (ppm)	Feb24/21	Jan 25/22 Jan 17/23	Feb16/24	0	Mar10.20	Jan 17/23
		GRAPHS Iron (ppm)	Feb24/21	Jan 25/22	Feb16/24	Abnormal LL/L1	Mar10/20	Jan 17/23 Jan 17/23
Feb24/21 + Jan25/22 +	Jan 17/23	Color Bottom				no image no image	no image no image	no image no image
		FLUID PROPE Visc @ 40°C SAMPLE IMAC	cSt	method ASTM D445 method	limit/base limit/base	current 44.9 current	history1 45.7 history1	history2 45.9 history2
Feb24/21	Jan17/23 - Feb16/24 +	Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NORML NORML >0.2	NONE NORML NORML NEG NEG	NONE NORML NEG NEG	NONE NORML NEG NEG
	\checkmark	White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE

Contact/Location: PAUL MOGAN - LORWEYMA